

The Davistown Museum
 The Ancient Dominions of Maine: An Archaeology of Tools
 Historic Maritime IV (1840-1865): The Early Industrial Revolution

The years between 1840 and the panic of 1857 witnessed the peak production of the shipyards downstream from Liberty and Montville. These years also saw the spread of railroads in southern New England and then into Maine, as well as an amazing growth in American manufacturing, including water-powered textile mills, iron foundries, coal production, steam-powered equipment, and machinery for use in the newly evolving factory system of production utilizing interchangeable parts. Small Maine manufacturers and edge toolmakers participated in this early Industrial Revolution, which is reflected in the changing designs and expanding tool kits of the period.

Liberty and Montville achieved their peak population levels exactly as the Waldoboro customs district achieved its peak production of wooden ships. Their construction and their need for supplies, cargos, produce, and crews help explain the boomtown years of both the central coast and its back hill country mill towns. One or more foundries were operating in Liberty during this time, with many coopers making staves and other woodenware for the flourishing coasting trade. Other toolmakers continued production of axes and other implements. To view the registry of the known 19th century Liberty and Montville toolmakers, click here:

<http://www.davistownmuseum.org/history.html>

Status Location

Agricultural Implements

090109T8 **Nippers** DTM MH

Drop-forged iron and steel, 10 3/4" long, 4 1/2" wide when open, 2" wide cutting edge, unsigned.

31808PC12 **Oxen shoes (2)** DTM MH

Malleable iron or steel, 5" long, signed "No 30" on each one.

Many other shoes were drop-forged or forge-welded by hand from high-carbon malleable iron. The "No 30" indicates these were made by drop-forging.

43805T1 **Pig skinner** DTM MH

Steel, wire, and wood, 4 5/8" long hardwood handle, 21" long from base of handle to the wire, and 18 1/2" long wire, unsigned.

<http://www.davistownmuseum.org/pics/43805t1.jpg>

32802T6 **Pruning shears** DTM MH

Forged iron or steel, 9 1/4" long, unsigned.

This distinctly hand-forged tool appears to be made entirely of forged malleable iron and steel. They were donated by Chris Harvey.

<http://www.davistownmuseum.org/pics/32802t6.jpg>

http://www.davistownmuseum.org/pics/32802t6_p2.jpg

TCK1005 **Pruning shears** DTM MH

Forged iron and steel, 10 1/2" long, 2 3/8" wide blade, signed "J.F. FOX PELHAM N.H".

Josiah F. Fox is listed in DATM (Nelson 1999) as working 1853 - 1877. He specialized in making pruning shears.

090508T1A **Sod cutter** DTM MH

Malleable iron, wood, 81" long, 7" long blade, unsigned.

This was made on an island off the coast of England.

Blacksmith, Farrier, and Metalworking Tools

92911T10 **Bar stock** DTM MH

Malleable iron, 36" long, 1" wide, 1" high, unsigned.

This is a product of a finery, which produced bloomery or puddling furnace-derived malleable iron bar stock for blacksmiths of many trades, often for hand tool production.

	Status	Location
<p>102904T17 Blacksmith punch</p> <p>Forged iron, 12" long, unsigned. This is a nicely fashioned smith-made special purpose punch, possibly for sheet metal work. http://www.davistownmuseum.org/pics/102904t17.jpg</p>	DTM	MH
<p>22512LTC11 Blacksmiths' curved concave hardy</p> <p>Cast or forged steel, 3 3/8" long, 1 3/4" wide, 6" hgh, unsigned. This is a curved bottom tool or hardy used for forging a rounded edge. It has a square shank for insertion into an anvil or swage block. Courtesy of Liberty Tool Co.</p>	DA	TT
<p>22512LTC10 Blacksmiths' curved convex hardy</p> <p>Cast or forged steel, 3" long, 4 1/2" wide, 1 3/8" high, unsigned. This is a curved bottom tool or hardy used for forging a smooth, rounded object. It has a square shank for insertion into an anvil or swage block. Courtesy of Liberty Tool Co.</p>	DA	TT
<p>42405T3 Blacksmiths' double calipers</p> <p>Forged steel or iron, 16 1/8" long, 6 5/8" wide when closed, signed with the owner's initials "HJK". This is a typical smith-made pair of calipers for shop use; probably one of a kind.</p>	DTM	MH
<p>22512LTC3 Blacksmiths' horned anvil</p> <p>Cast steel, 28 3/4" high, 10" x 8.5" wide, unsigned. Courtesy of Liberty Tool Co.</p>	DA	TT
<p>5412LTC4 Blacksmiths' straight lip tongs</p> <p>Forged iron, 21" long, 3/4" jaw, unsigned. Courtesy of Liberty Tool Co.</p>	DA	TT
<p>5412LTC3 Blacksmiths' straight lip tongs</p> <p>Forged iron, 23" long, 1" jaw, unsigned. Courtesy of Liberty Tool Co.</p>	DA	TT
<p>5412LTC2 Blacksmiths' tongs</p> <p>Forged iron, 27 1/4" long, 1/2" jaw, unsigned. These tongs are not illustrated in Sellens (1990). Courtesy of Liberty Tool Co.</p>	DA	TT
<p>041709T1 Chasing tools (11)</p> <p>Forged steel, 2" to 3" long, 1/4" to 1" wide, signed "W. Jessop & Sons", 1832-1900 (?). This group of tools is an example from a larger collection of such chasing and die sinking equipment used by blacksmiths and jewelers, all acquired from the estate of Leon Robbins. The marking "W. Jessop & Sons" on some of the pieces indicates that they were made by William Jessop & Sons, a Sheffield, England company that took up the name in 1832 and eventually became Jessop Saville & Company. The size of the designs on the stamps ranges from an inch to less than 1/32 of an inch. 11 tools total.</p>	DTM	MH
<p>72801T9 Chisel</p> <p>Forged iron and steel, signed "Trafton Brothers" with other obscured markings. DATM (Nelson 1999) reports the Trafton Brothers as Portsmouth, NH area blacksmiths working c. 1860.</p>	DTM	MH
<p>31212T20 Farriers' shoeing hammer</p> <p>Drop-forged steel, hickory handle, 14" long, 4" long head, unsigned. This tool has evidence of hand filing on the head. Courtesy of Liberty Tool Co.</p>	DTM	TT
<p>102904T8 Farriers' slick</p> <p>Forged steel, iron ferrules, wooden handle, 26 1/4" long, 16" long and 1 1/3" wide blade, signed "C J KIMBALL & SON". Caleb Jewett Kimball worked in Milford and Bennington, NH. The Kimballs are famous for their high quality drawknives, which were produced in sufficient quantities to be frequently encountered today. The farriers' slick is less common; it is used for smoothing leather. http://www.davistownmuseum.org/pics/102904t8_p2.jpg http://www.davistownmuseum.org/bioKimball.html</p>	DTM	MH

Davistown Museum Inventory of Tools - Maritime IV

Blacksmith, Farrier, and Metalworking Tools

	Status	Location
51606T12 Farriers' slick	DTM	MH
Steel, iron, and wood, 11 3/4" long, 5 1/2" wide double-edged blade, unsigned. This is a transitional tool showing evidence of handwork (hand-filed surfaces, oak (?) pegs trunneled into one handle for strength) and machined components (factory-made screws and a second machine-made handle.) This is the smallest farriers' slick we have seen.		
5412LTC5 Farriers' tongs	DA	TT
Forged steel, 14 1/2" long, 3/4" jaw, unsigned. Courtesy of Liberty Tool Co.		
121805T25 File	DTM	MH
Cast steel, 13 1/4" long, 9/16" diameter, signed "6 granobs" and "cuss stahl". This file is entirely handmade and handcut in the traditional file-making manner. Stahl is the German word for cast steel. http://www.davistownmuseum.org/pics/121805t25.jpg		
TCR1016 Hand vise	DTM	MH
Forged iron and steel, 6" long, 1 5/8" throat, signed "G. W. DANIELS WALTHAM MA NO.2". DATM (Nelson 1999) lists a George Washington Daniels as a maker of dividers, vises, and other tools, working in Waltham, MA with working dates between 1850 -1886 (born 1830, died 1886). This vise is a variant of a common hand vise, with a small square anvil on a heart shaped hold down. The bottom nut appears to be a replacement.		
22411T21 Hand vise	DTM	TT
Cast steel or German steel, 6" long and 2" wide head, signed "P S STUBS". http://www.davistownmuseum.org/bioStubs.htm		
42801T21 Hand vise	DTM	MH
Drop-forged iron or cast steel (?), signed "Smith & Co.". DATM (Nelson 1999) lists Smith & Co. with no dates. Many Smiths made tools -- who was Smith & Co. and where did they make hand vises?		
3405T6 Hand vise	DTM	MH
Steel, 3 1/8" long, 1" wide jaw, signed "Heile and Quack". No Heile and Quack are listed in DATM (Nelson 1999). This is probably an example of a German-made tool using German steel.		
33002T4 Nail header	DTM	MH
Tempered alloy steel, 11 3/4" long, 9/16" square head socket, signed "F. E. Streeter". This maker is not in DATM (Nelson 1999). Any relationship to A. W. Streeter of Shelburne Falls, MA, c. 1855?		
TCF1002A Nail header	DTM	MH
Drop-forged iron, 8 3/4" long with 3 heads, 3/4" sq., 5/8" sq., and 3/16" sq., signed "P.S. CRONIN", c. 1850. The maker is not listed in DATM (Nelson 1999).		
TCR1021A Pliers	DTM	MH
Drop-forged steel (?), 5 1/2" long, signed "_ NISSEL". This maker is not listed in DATM (Nelson 1999).		
31011T4 Punch	DTM	TT
Cast steel, 5 5/8" long, 1/2" wide, signed "C. DREW & CO." "CAST STEEL". http://www.davistownmuseum.org/bio#bioDrew.htm		
121805T21 Rasp	DTM	MH
Cast or German steel, 12 1/4" long, 1 5/16" wide, signed "Grover & Son" with a touchmark, c. 1850. This is a typical Sheffield, England, cast steel handmade rasp or shaver. Each notch was cut by an English file-maker by hand. http://www.davistownmuseum.org/pics/121805t21.jpg		
914108T6 Spoon	DTM	MH
German steel, 8 1/4" long, signed "BERTOCCHI". This tool is shaped like a punch or chisel with the end curved into a spoon shape. Possibly it was used in a foundry.		

Cast Iron Tools and Artifacts

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Cast Iron Tools and Artifacts

	Status	Location
111001T32 Awl	DTM	MH
Cast iron, 7" long, unsigned. This is another tool from the age of cast iron (1840 - 1865).		
TCR1018 Block	DTM	MH
Cast iron, 10" height, with a 5" diameter iron shive, signed "Clayville Iron Works NY". No Clayville is listed in DATM (Nelson 1999). This factory-produced tool is typical of the blocks that would have been brought to and used in the mills of Liberty and Montville after the Civil War when mass-produced tools supplanted the handmade and hand-forged wooden blocks characteristic of the earlier stages of the historic maritime culture of coastal Maine and New England.		
TCR1017 C-clamp	DTM	MH
Cast iron, 6 3/4" long, 3 1/2" throat, signed with the mark "W's No 1". This C clamp has a winged screw typical of an early 19th century tool and represents a transition between hand-forged blacksmith-made tools and the mass-produced drop-forged C clamps of the late 19th century. Is this cast iron or drop forged iron?		
TGB2205 Crucifix	DTM	MH
Cast iron, 6 1/2" long, 5 1/2" wide, unsigned.		
TTCR1001 Doorknob patterns	DTM	MH
Cast iron, 5 3/4" long, unsigned. If these were not cast by a patternmaker for molds for ceramic doorknobs, what are they? Most patterns are wood, not cast iron. Comments are solicited.		
111001T30 Harness-makers' vise	DTM	MH
Cast iron, 5 1/2" wide, 3 1/2" wide jaw, unsigned. This is a common 19th century tool; in the 21st century, just another whatsit?		
111001T33 Insignia	DTM	MH
Cast iron, 5 1/4" diameter, signed with a 4" high "1". This is another artifact from the age of cast iron. What was its use?		

Cobbler and Saddler Tools

041505T40 Burnisher	DTM	MH
Lignum vitae, 15 1/2" long, 1 1/2" wide, unsigned. This is an upholsterers' burnisher made from a tropical wood - a nice example of a tool from long ago. http://www.davistownmuseum.org/pics/041505t40_p2.jpg		
102800T5 Burnisher (slitted)	DTM	MH
Drop-forged steel and wood, 3 3/8" long, 1 1/4" wide, unsigned.		
913108T29 Chamfering tool	DTM	MH
Iron, brass, and wood, 4 1/2" long curved wooden handle, 3 1/2" long brass portion, unsigned. This tool is used for leather work.		
33002T8 Cobblers' clamp	DTM	MH
Steel, 8 3/8" long, 3 5/8" adjustable jaw, unsigned. This tool has a specific name -- what is it? http://www.davistownmuseum.org/pics/33002t8.jpg		
42405T9 Cobblers' hammer	DTM	MH
Forged steel, wood handle, leather strap holding the head in place, 3 1/8" long, 1 3/8" diameter face, 1 3/4" square and oval face, 6 1/4" long handle, unsigned, c. 1850. This hammer shows signs of drop-forging		
101900T4 Cobblers' hammer	DTM	MH
Steel and wood, 9 1/2" long, 1 3/8" diameter face, unsigned. This is a typical cobblers' hammer that was used in the mid-nineteenth century Liberty and Montville cobblers' shops. http://www.davistownmuseum.org/pics/101900t4.jpg		
52603T9 Cobblers' sling cutter	DTM	MH
5" long, unsigned.		

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Cobbler and Saddler Tools

102100T17 **Eyelet punch** Status Location
DTM MH

Cast steel, 6 3/8" long, signed "W F BINGHAM".

No Bingham with these initials is listed in DATM (Nelson 1999), but these might have been made by the Bingham Toolmakers of Norwich, CT, c. 1857-58.

913108T9 **Hammer** DTM MH

Drop-forged malleable iron and low carbon steel, 9 1/4" long including a 7 3/4" long handle, 4 1/8" wide head, signed "JVIGEANT" "MARLBORO" "MASS" and on the other side "PAT JAN7" "1869" "NO. 2".

DATM (Nelson 1999) states Jacob Vigeant held a hammer patent but it is unknown if he also made the hammers, which are factory-made. The date of the patent is incorrect.

111001T36 **Leather cutter** DTM MH

Cast steel, 4 1/4" long, 7/8" diameter serrated cutting edge, signed with the mark "7/8".

61204T9 **Leather slitter** DTM MH

Brass, steel, iron screws, and wood handle, 7" long, brass slitter 1 3/4" wide, steel slitter 2 3/8" long, unsigned.

<http://www.davistownmuseum.org/pics/61204T9.jpg>

TCH1004A **Leather stretcher** DTM MH

Drop-forged iron with a wood handle, 10 1/4" long with a 1/2" wide mouth, 5 1/4" long handle, unsigned.

30202T1 **Shoemakers' lasting pliers** DTM MH

Drop forged steel, 8 1/2" long, 1" wide jaws, signed "L. B. Richardson Athol Mass Patented Oct 11, 1859".

<http://www.davistownmuseum.org/pics/30202t1.jpg>

TCH1001 **Tack pry** DTM MH

Cast steel with rosewood handle, 7 1/4" long, 3 7/8" handle, signed "C.S. OSBORNE & CO. STEEL", c. 1850.

DATM (Nelson 1999) lists the C.S. Osborne Co. as located in Newark, NJ, as early as 1826. The C.S. Osborne Co. is still in business; many of its tools have been sold over the last 25 years by the Liberty Tool Co. across the street from the Museum. www.csosborne.com

<http://www.davistownmuseum.org/bioOsborne.html>

Coopers' Tools

41203T6 **Chamfer knife** DTM MH

Drop-forged German or puddled steel, wood, 15" long, 5 1/2" long cutting blade, 8" long handle, signed "L. & I. J. White 1837 Buffalo NY" and "5 1/2".

DATM (Nelson 1999) notes this famous and prolific maker of coopers' tools and other edge tools worked from 1837 to 1928. Almost all of their tools have the founding date of 1837 marked on them. This is an essential tool for both wet and dry coopers.

http://www.davistownmuseum.org/pics/41203t6_p1.jpg

http://www.davistownmuseum.org/pics/41203t6_p2.jpg

12801T7 **Coopers' adz** DTM MH

Malleable iron and steel, 8" long, 1 1/4" square striking face, 2 9/16" wide blade, signed "VAUGHAN" "PARDOE & COX" "UNION" "WARRANTED".

This tool shows some evidence of hand work, including hand filing and hand-forged bevelling at the handle socket, which protrudes from the adz's body. An essential and commonly encountered tool in a coopers' workshop, it was used to construct the barrels, kegs, and casks of Maine and New England's fishing and commercial industries and the West Indies and Wine Island trades. This is the first tool in our Vaughan & Pardoe collection with Cox as part of the signature. Donated to the Museum by Rick Floyd.

http://www.davistownmuseum.org/pics/12801t7_p7.jpg

<http://www.davistownmuseum.org/bioVaughn.htm>

7602T3 **Coopers' adz** LPC MH

Malleable iron and steel with wood handle, 9" long, 3" wide blade, 10" long handle, signed with an obscure "KING New York".

This large coopers' adz came with the H. A. W. King coopers' broad ax (7602T2) and appears to be of the same vintage.

Davistown Museum Inventory of Tools - Maritime IV

Coopers' Tools

Status Location

LPC MH

7602T2 Coopers' broad ax

Forged iron and weld steel with wood handle, 17 1/2" long, 9 3/4" blade, signed "H. A. W. KING" "LEWIS STNY" (?).

DATM (Nelson 1999) lists an H. & J. W. King as working in New York in 1856, making bits, braces, drawknives, and planes. No other information is available on a King as a maker of coopers' tools. William Horton of New York stamped his tools "121 LEWIS ST N.Y." This coopers' ax is typical of those found in a shipyard at any time in the 19th century. However, even as late as 1868, working coopers played an essential role in supplying vessels of every description with casks and kegs for water, rum, lime, and other liquids, as well as dry cooperage for salt, flour, rope, etc. By 1880 the twilight of the era of the cooper had arrived.

http://www.davistownmuseum.org/pics/7602t2_p5.jpg

11301T5 Coopers' broad ax

DTM MH

Malleable iron and steel, wood, 9" long blade, 4 1/2" maximum width of blade, 3 1/8" long pole, signed "Beardsley & Tyler".

Beardsley and Tyler is not listed in DATM (Nelson 1999), but there was a B. R. Beardsley making axes and edge tools in Elmira, NY, c. 1859.

121805T17 Coopers' bung

DTM MH

Wood with leather header, 5 1/2" long, 4 7/8" wide, unsigned, c. 1850.

This is a typical coopers' bung for closing kegs and securing staves; a ubiquitous tool found in every workshop at that date.

<http://www.davistownmuseum.org/pics/121805t17.jpg>

913108T45 Coopers' bung

DTM MH

Recycled steel with a wooden handle, 7 3/4" long, 3 3/4" long blade, unsigned.

It is unusual to see a coopers' bung used for a handle attached to a curved blade.

81801T13 Coopers' hammer

DTM MH

Cast steel with wood handle, 4 5/8" long head, 1 5/8" long groove, signed "C. Drew & Co. Cast Steel".

This is a rare Drew tool, the only Drew coopers' hammer seen by the curator over 40 years.

<http://www.davistownmuseum.org/pics/81801t13.jpg>

<http://www.davistownmuseum.org/bioDrew.htm>

42801T7 Coopers' howell

DTM MH

Wood and steel, 13 7/8" long, 1 9/16" wide blade, unsigned.

22311T19 Coopers' jigger

DTM TT

Forged iron and steel, 15" long, 5" long blade, signed "L. & I. J. WHITE" "BUFFALO, N.Y." in an oval shape with "1837" in the center, "5" above the trademark, and "A" on the inner handle.

This is also called a howeling knife. Part of the Robert Sullivan Collection donation.

121311T1 Coopers' side ax

DTM TT

Malleable iron and steel, wood, 17 1/2" long handle, 9" long and 6" wide blade, signed "J. F. Staples".

This broad ax shows distinct evidence of iron steeling. James Forest Staples worked in Portland, ME, 1849 - 1856.

30301T1 Coopers' stove

DTM LTC

Sheet metal and cast iron, aprox. 38" high, 16" diameter, unsigned.

This stove was made in Liberty and was used in the 19th century by the dry coopers to heat the metal rings for the barrels. It is on display at the Davistown Museum Liberty Tool Annex.

31808PC10 Croze

DTM MH

Steel, copper trim, brass screws, and wood, 13 3/4" long, 1/4" cutter, signed with an 1850 woman's profile and 4 stars over her head plus three decorative copper coins.

120907T3 Drawshave

DTM TT

Malleable iron, forged steel, and wood, 15" long, 1 5/8" long blade, and 4 1/2" handles, signed "L & T WHITE" "18*7" and "BUFFALO N.Y." in an oblong oval with "6" on the other side.

This coopers' shave shows evidence of either a weld or a differential temper line on the backside.

31808SLP28 End shave

DTM TT

Steel and wood, 7 1/2" long, 4 5/8" wide, unsigned.

<http://www.davistownmuseum.org/pics/31808slp28-1.jpg>

<http://www.davistownmuseum.org/pics/31808slp28-2.jpg>

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Coopers' Tools

Status Location

51606T10 Hoop driver

DTM MH

Puddled steel and wood, 9 1/4" long including an 8" wood handle, 1 1/2" head, unsigned.
The maker's mark is obscured by a heavily peened head showing many years of intensive use.

100605T2 Hoop driver

DTM TB

Steel with wooden handle, 5 1/8" long head with 1 1/2" drive, 12 1/2" long handle, signed "A. G. MORSE&CO" "BOSTON".
This is an undistinguished example of a hoop driver with a previously unrecorded maker's sign. This tool was found in a barn in Washington, Maine.

51201T3 Hoop driver

DTM MH

Steel, iron, and wood, 7 3/4" long including a 4 3/8" handle, 2 5/8" wide driver, unsigned.
An iron ferrule is at the end of the wood handle. This is an excellent example of a coopers' hoop driver or bung with a provenance from a New Bedford cooperage, c. 1860.

<http://www.davistownmuseum.org/pics/51201t3.jpg>

31808SLP29 Shave

DTM TT

Steel and wood, 11 1/2" long, 4" long blade, unsigned.

<http://www.davistownmuseum.org/pics/31808slp29-1.jpg>

<http://www.davistownmuseum.org/pics/31808slp29-2.jpg>

121311T2 Shingle knife

DTM TT

Puddled or German steel, wood handle, 8 3/4" long, 2 3/4" wide, signed "Higgins & Libby" "8" "Portland".
It is likely to be made of local forged puddled or German steel. Higgins & Libby worked in Portland, ME, in 1856.

<http://www.davistownmuseum.org/publications/volume10.html>

Domestic Utensils

112303P1 Apple corer (?)

DTM MH

Wood, 10 1/4" high, 10 1/2" wide, 7" by 2 1/4" footing, mounted on 15" by 8" base, unsigned.
This is a typical homemade primitive of the 19th century. Was this used as an apple corer or a yarn winder?

31701T1 Candlewick cutter

DTM MH

German (?) steel with cast iron handles, 5 3/4" long, signed "W_BANNA_ PATD _ 25th ____".
No such maker is listed in DATM (Nelson 1999). This is a generic 19th century tool with a mysterious maker's mark.

71401T16 Curling iron

DTM MH

Cast steel, 10 3/8" long, unsigned.
This is a typical 19th century curling iron.

<http://www.davistownmuseum.org/pics/71401t16.jpg>

30106T1 Earthen redware pot

DTM MH

Redware, 5 1/2" diameter top, 3 1/4" diameter bottom, 5" high, unsigned.
It has an incised one inch band with black stain at top and a brown drip glaze interior.

111001T22 Graining tools (set of 11)

DTM MH

Cast steel, 3 1/2" high, widths vary from 3/4" to 4", unsigned.
These are used for grain patterning painted surfaces, especially on blanket chests and other Victorian style cottage furniture.

<http://www.davistownmuseum.org/pics/111001t22.jpg>

101701T8 Gun powder flask

DTM MH

Brass and leather, 7 1/2" long, 2 1/2" brass nozzle with closure, unsigned.
This is a generic Civil War era gunpowder container with hand sewn leather.

72002C1 Ink bottle

DTM T-R

Ceramic stoneware, 7 1/2" high, 3" diameter, unsigned.
Liberty Tool Company recovered several hundred of these ink bottles from a Boston resident who had dug them up from a school (?) dump. Around the Civil War era, these were used to hold ink for the public schools before the change over to glass ink bottles.

92001T7 Milk bowl

LPC MH

redware, unsigned.
It was made by John Corliss's pottery at Days Ferry, ME, just across the Kennebec River from Bath.

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Domestic Utensils

Status Location

DTM MH

121805T4 Scissors

Steel, 10" long, signed "SUPREMO", c. 1850-60.

These are a nice example of Italian scissors of the early Industrial Revolution - i.e. an early example of drop-forging.

http://www.davistownmuseum.org/pics/121805t4_p2.jpg

914108T14 Scissors

DTM MH

Drop-forged steel, brass screws, 4 1/6" long, signed "BARCLAY".

Possibly this is Barclay & Co. of Newark, NJ, who made leather tools circa 1875 - 1885. These scissors have a special notch cut out of the blades.

41801T6 Shears

DTM MH

Malleable iron and steel, 12 1/2" long, 6 1/2" long blades, signed "P H Hahn NY".

It could be signed Hahn? No makers with this mark are listed in DATM (Nelson 1999). This tool is difficult to date (1840 - 1880?) but has a clearly defined steel cutting edge welded to the iron blade similar to many axes made during this period.

50402P1 Tintype in a reliquary with a bible

NOM

Ivory and tin, 13/16" wide, 1" high tintype; 1 5/8" wide, 2" high reliquary; 1" high, 1/2" wide bible, signed "H Ramsdell, Lubec, Oct 1 1863" on ivory.

The tintype is a photograph of a Civil War soldier who perhaps died on or near the date. The reliquary and bible have been polychromed. The reliquary is made of ivory scrimshawed in colored ink with flags, tent, weeping willow, and three guns. The bible is scrimshawed with flowers. Henry Ramsdell of Lubec was in the 15th Infantry, Maine Volunteers. Born circa 1843, he was at Harper's Ferry and Louisiana battles during the Civil War. More information about Ramsdell is welcomed. These pieces were loaned to the Museum by Robert Wheeler for the 2002 exhibit and have now been returned.

http://www.davistownmuseum.org/pics/50402p1_p1.jpg

<http://www.davistownmuseum.org/TDMnewAcquisitions.html>

Files

913108T24 File

DTM MH

Medium carbon steel and wood, 7 3/4" long, unsigned.

The use of this tool is unknown. It looks similar to a planemakers' float but originated with a collection of leatherworking tools in Merrimac, MA, in 2008. The uniformity of the grooves, which are only on one side, suggests it is machine-made.

Fishing Implements

112704T3 Frost fish spear

DTM MH

Forged iron, wood handle, iron ferrule, 6 spears, 6 3/8" long, 2 3/8" wide, 4 1/2" long ferrule, 38" long handle, unsigned.

See the description of this type of tool under tool #112704T2.

112704T2 Frost fish spear

DTM MH

Forged iron, wood handle, 8 spears, 4 1/2" long, 2 3/4" wide, 38 1/4" long handle, unsigned.

Found in an Achusnet, MA, fishing shed, this hand-forged fishing spear and a second one (112704T3) are difficult to date and may be early 19th century or possibly late 18th century. These tools were used in the tradition of Native Americans to spear fish from shoreward, especially on cold nights of the first fall frosts, swarm to the sandy shallows and mudflats of New England coves and estuaries. Frost fish were especially common in the warmer water of Buzzards and Narragansett Bays, but are also a tradition in Maine rivers and inland bays.

10910T1 Swordfish harpoon head

DTM MHC-G

Brass, 6" long, 1 5/8" wide, unsigned, c. 1865-1900's.

<http://www.davistownmuseum.org/pics/10910t1web2.jpg>

<http://www.davistownmuseum.org/pics/10910t1web1.jpg>

Hammers

52603T18 Ball peen hammer

DTM MH

Drop-forged iron or steel, wood, 10 1/4" long, 3 1/2" head, unsigned.

TTCR1002 Ball peen hammer patterns (2)

DTM MH

Forged iron or steel, 9 1/2", unsigned.

This curious artifact is probably two ball peen hammers rejected as seconds prior to drop-forging. Do they represent the early stages of drop-forge production? Comments are solicited.

Davistown Museum Inventory of Tools - Maritime IV

		Hammers
		Status Location
33002T16	Claw hammer	DTM MH
<p>Forged iron and steel, 5 3/8" long, 1" square face, signed "C. BARNARD". Barnard is not listed in DATM (Nelson 1999); another unregistered American (?) toolmaker of the 19th century. http://www.davistownmuseum.org/pics/33002t16.jpg</p>		
TCM1001	Cobblestone hammer	DTM MH
<p>Forged iron and steel, 12" long, 1 1/8" round face, signed "COCKRHYMES & CO" on one side and "J.T. & CO" on the reverse side. It has distinct beveling on the head; the prototypical tool used to construct the cobblestone streets of Portland, Boston, and other Atlantic coastal cities. It may have been drop-forged. http://www.davistownmuseum.org/pics/TCM1001.jpg http://www.davistownmuseum.org/pics/TCM1001-2.jpg</p>		
913108T10	Granite hammer	DTM MH
<p>Iron and steel, 5" long, 4 3/4" diameter, unsigned. One end of the hammer head is in a star shape and is used to break up granite.</p>		
32802T14	Gristmill stone hammer (?)	DTM MH
<p>Forged iron and steel, 8 7/8" long, 1 3/8" cutting edge, signed "JOHN HARTMAN Boston Mass". DATM (Nelson 1999) does not list this hammer-maker. http://www.davistownmuseum.org/pics/32802t6a.jpg</p>		
041505T12	Hammer	DTM MH
<p>Forged iron and steel, wood handle, 9 3/4" long including handle, 4 1/2" head, 1/2" wide hatchet-like cutting edge, 15/16" diameter face, unsigned. Clearly made of hand-filed steel, this hammer is difficult to date and of unknown use. It is part of the hammer study group. It is the hammer on the far right of the photograph with its handle pointing upward. http://www.davistownmuseum.org/pics/041505t4.jpg</p>		
041505T17	Hammer	DTM MH
<p>Forged iron and steel with wood handle, 14 3/8" long handle, 5 7/8" long face, 2 faces both 1" diameter, unsigned. This old hammer shows evidence of hand-forging and filing, but was probably drop-forged before it was reworked by hand. It is part of the hammer study group. It is the hammer on the left of the photograph. http://www.davistownmuseum.org/pics/041505t11.jpg</p>		
121805T13	Hammer	DTM MH
<p>Forged iron and steel, wood, 10 3/4" long including wooden handle, 4 9/16" wide, 1" diameter head, unsigned. This is an incomplete example of one of America's first patented hammers. One piece below the looped claws is missing. http://www.davistownmuseum.org/pics/121805t13_p2.jpg</p>		
31602T4	Millstone facing hammer	DTM MH
<p>Iron, steel, and wood, 9 1/2" long, 4 1/2" long head, 1 3/8" wide steel faces, unsigned.</p>		
041505T14	Sledge hammer	DTM MH
<p>Forged iron and steel, wood handle, 23 1/2" long handle, 7 1/4" long head, 1 1/2" square peen and 3/4" square face, unsigned. This old sledge shows evidence of hand-forging and filing. It is probably smith-made in the mid-19th century. http://www.davistownmuseum.org/pics/041505t14.jpg</p>		
TCM1006	Stone hammer	DTM MH
<p>Forged iron and steel with wood handle, 10" long, head 2 1/2" long and 1/2" wide, signed with the touchmark "AHEW" (in a triangle). The handle has a twist design at the grip.</p>		
090109T6	Tack hammer	DTM MH
<p>Tool steel and wood, 3 1/2" long, 9/16" wide head, 6 1/2" long wooden handle, signed "E.LIBBY".</p>		
TCM1002	Tack hammer	DTM MH
<p>Drop-forged iron and steel, wood, 13 3/4" long, 2 5/8" long head, 5/8" diameter face, unsigned. It was probably used in the carriage-making trade.</p>		

Davistown Museum Inventory of Tools - Maritime IV

Hammers
Status Location
DTM MH

TML1003 Tack hammer

Drop-forged steel, 4 5/8" long, 1/2" diameter, signed "C. DREW & CO".
Drew hammers are rare; this one has a split face.

<http://www.davistownmuseum.org/bioDrew.htm>

TBL1003 Tack hammer head

Drop-forged steel, 4 1/2" long, signed "C. DREW & CO".

<http://www.davistownmuseum.org/pics/51100t6.jpg>

<http://www.davistownmuseum.org/bioDrew.htm>

Ice Tools

040904T4 Ice ax

Iron and weld steel, 11 1/4" long, 2 3/4" wide blade, signed possibly "DERNELL & Co" "ATHENS NY".

This is a generic ice ax. The signature is partly obscured and appears to have the letters above. The Village of Athens, 1896 Greene County Directory lists: "Frederick F. Dernelle (H. F. Dernelle & Co.)---res. Washington St. near Third St." [on the web at: http://www.rootsweb.com/~nygreen2/1896_village_of_athens.htm]. DATM (Nelson 1999, 222) lists H. F. Dernelle & Co. in Athens, NY, with working dates from 1854-1917.

http://www.davistownmuseum.org/pics/040904t4_p1.jpg

71903T2 Ice saw

Steel with cast iron and wood handle, 45 1/2" long, 7 3/4" wide at widest point, unsigned.

This double sided ice saw has an atypical form -- smaller than most ice saws. This may have been a limited production saw from a small foundry. It has a Maine provenance.

Knives

71401T19 Banana knife

Drop-forged steel, wood, and brass, 10" long, 3 1/8" wood handle, unsigned.
This is an example of a now forgotten tool, the banana knife.

61601T1 Cleaver

Cast steel, 15 5/8" long, 10 1/4" blade, signed "BILLINGS" "CAST STEEL" "AUGUSTA".

This tool is intriguing because its steel cutting surface is welded to a steel, not iron, body. Is the body of the cleaver "cast steel" or a lower quality puddled or blister steel? Many Billings are listed in the Registry of Maine Toolmakers as working in N. Monmouth, Clinton, and Saco. John P. Billings and his son George made axes in Clinton from about 1860 to 1909. Other members of the Billings clan are listed as making tools as early as the 1840s.

When making this cleaver (as well as the clapboard slick also in the collection of The Davistown Museum) did Billings utilize imported English cast steel or American made cast steel (1865 f.)?

http://www.davistownmuseum.org/pics/61601t1_p2.jpg

<http://www.davistownmuseum.org/publications/volume10.html>

41801T2 Oyster knife

Wood, steel and brass, 6 3/4" long, 3 5/8" blade, signed "TUCK".

It is sometimes also called a clam knife. This Brockton Massachusetts company was established from 1852 until 1915, and made prolific quantities of hand tools including screwdrivers. The Davistown Museum is seeking more information on this toolmaker

51606T14 Putty knife

Steel and rosewood, 7 1/8" long including a 3 1/2" oval handle, signed "J Russell & Co. Green River Works".

This is a mundane tool made by one of America's most important toolmakers, the John Russell Mfg. Co.

<http://www.davistownmuseum.org/bioRussel.html>

31808PC11 Trappers' knife

Steel, copper trim, and wood, 9" long, 4 7/8" blade, signed "RUSSELL & CO." and "GREEN RIVER WORKS" on the blade.

John Russell & Co. was located in Deerfield and Greenfield, Massachusetts from 1832 - 1865.

<http://www.davistownmuseum.org/bioRussel.html>

Logging Tools

71903T7 Log rule

Wood, 48" long, unsigned.

Clearly hand stamped, this logging rule may predate the era of the factory-made Lufkin logging rule.

Davistown Museum Inventory of Tools - Maritime IV

Logging Tools
Status Location
DTM MH

4105T6 Peavey

Malleable iron, 9 1/4" long, unsigned.

This hand wrought peavey point is nicely forge-welded and could also be early 19th century. It is a nice example of the craft of the blacksmith and the beauty and ductility of malleable iron.

913108T13A Peavey

DTM MH

Malleable iron, 12 1/2" long, signed "WILLARD", the first initial is obscured.

This tool is also known as a cant dog spike.

913108T12 Spike

DTM MH

Hang-forged malleable iron, 11 6/8" long, signed "J. H. PEAVEY" "_ANGOR, ME".

This is the spike end from a cant hook or peavey. DATM (Nelson 1999) believes that James Henry Peavey of Bangor, Maine, was probably part of the Peavey Tool Co.

<http://www.davistownmuseum.org/bioPeavey.htm>

61204T8 Spud

DTM MH

Forged iron and steel, 19" long including 5 5/8" long handle, signed "____ Brewer Maine".

This tool is made of forge-welded iron and steel with a distinctive forge-welded iron socket. This is a classic example of a 19th century spud used to remove the bark from a log, either for preparing the log for the mill or removing the bark (eg. Hemlock) for the tannery. Part of the signature is not legible. Could this be an early forge-welded Snow & Nealley tool?

<http://www.davistownmuseum.org/pics/61204T8.jpg>

Machinists' Tools

In the early years of the Industrial Revolution, machinists sometimes made their own hand tools as well as the machinery that produced the things they were manufacturing. The tools in this section are typical of those which might be found in a mid-19th century machine shop just prior to the era of mass production of hand tools. The owner made, or small factory made hand tool or machine is often characterized by evidence of hand filing, which continued to be the primary method of finishing tools and machinery until the advent of the milling machine.

Some of the best examples of machinery made in this era are the massive lathes and other equipment on display from the Robbins & Lawrence Armory Machine Shop at the American Precision Museum in Windsor, VT.

121805T5 Calipers

DTM MH

Tempered alloy steel, 12 1/2" long, signed "H. C. Perry" and "H.C.P.", c. 1850.

No H. C. Perry is listed in the Directory of American Toolmakers (Nelson 1999). These exquisitely made cast steel calipers are almost certainly American-made by the owner of a small machine shop. A gorgeous finely made specimen from the classic period of the florescence of American toolmakers.

http://www.davistownmuseum.org/pics/121805t5_p2.jpg

41203T5 Depth gauge

LPC MH

Tempered alloy steel, 4" depth gauge on a 3 3/8" long, 15/32" wide japanned base, signed "D & S".

D & S is the mark on the very rare tools of Darling & Schwartz, Bangor, ME, 1854 - 1866. This is the only known example of this tool -- a treasure from the boomtown years of Bangor, by one of America's finest machinist toolmakers.

http://www.davistownmuseum.org/pics/41203t5_p3.jpg

<http://www.davistownmuseum.org/publications/volume10.html>

TCP1005A Dividers

DTM MH

Cast steel, 6 7/16" long, signed "H.A. PAGE CAST STEEL", c. 1840 (?).

This maker is not listed in DATM (Nelson 1999). It is similar in style to both Boker and Stevens calipers. Boker tools were imported from Germany and Stevens manufactured calipers of this style in Holyoke, MA.

<http://www.davistownmuseum.org/pics/tcp1005a.jpg>

TCP1004A Dividers

DTM MH

Forged iron, 7 3/4" long, signed "W.D.EVANS".

DATM lists a Willaim B. Evans as an ax maker of Compton, NH, c. 1884. This divider appears older than that.

<http://www.davistownmuseum.org/pics/tcp1005a.jpg>

090508T3 Framing square

DTM MH

Metal, 4 12/16" x 3", signed "HOWELL TOOL CO." "ORANGE, MASS" and "U.S.A." with owner's mark "J.D." on the short end.

This company made machinists' squares around 1900 and might be connected to F. L. Turner & Co. of Ohio (Nelson 1999).

Davistown Museum Inventory of Tools - Maritime IV

Machinists' Tools

Status Location

50402T6 **Height gauge** DTM MH

Tempered alloy steel, 3 5/8" long with 1 5/8" diameter base, unsigned.

This exquisite shop-made machinist tool was probably made just prior to the appearance of factory made surface gauges in the classic period of American machinists' tools (1865 - 1900).

33002T6 **Knurling tool** DTM MH

Steel, 5 1/2" long handles, 3 13/16" wide, 4 1/2" diameter knurling cutters, signed "55" for 1855 (?).

It is typical of the shop produced machinists' hand tools of the pre-massproduction era.

<http://www.davistownmuseum.org/pics/33002t6.jpg>

71908T1 **Level** DA MH

Wood and brass, 24" long, 2 5/8" wide, and 1 1/2" deep, signed "O. Little" and also has a paper label "SPIRIT LEVEL", "OF ALL KINDS," "MADE AND WARRANTED BY" and "___ McCOSKRIE".

DATM (Nelson 1999, 525) lists James McCoskrie of East Cambridge, MA as a maker of levels in 1848-1850. This name matches the partially legible label, which also states "Camb" on the torn bottom line. O. Little was the owner.

<http://www.davistownmuseum.org/pics/71908t1-3.jpg>

TCP1001 **Level** DTM MH

Cast iron, 8 1/4" long, 7/8" wide, 1 5/16" high, unsigned.

This 19th century tool comes from southern New England. It is typical of a tool manufactured at the location the tool was used, probably by the person who made it.

21201T9 **Machinists' level** DTM MH

Tempered alloy steel, 9" long, 13/16" wide, unsigned.

This is an elegant owner-made shop tool dating from an era (1840 - 1860) where machinists often made their own tools.

41203T2D **Machinists' pry bar** DTM MH

Forged steel, 15 1/2" long, signed "C. Drew & Co. No 75".

<http://www.davistownmuseum.org/bioDrew.htm>

040103T5 **Marking gauge** DTM MH

Tool steel, 12 1/4" long with 4" sliding gauge, signed "D. Cummings".

No D. Cummings is listed in DATM (Nelson 1999). The sliding gauge is attached to the middle of the rule by an adjustable nut. The unusually odd design of this early machinists' tool and its perplexing signature make this an intriguing example of either a one-of-a-kind tool or one made in very limited quantities. Who was D. Cummings and where and when did he work?

http://www.davistownmuseum.org/pics/040103t5_p1.jpg

http://www.davistownmuseum.org/pics/040103t5_p2.jpg

71903T6 **Rule** DTM MH

Tool steel, 24", signed "D & B Bangor Me USA Stnd.".

One of the rarest of all marks, Darling & Bailey made machinist rules in Bangor, Maine, for only one year before becoming Darling & Sharpe (1854), the precursors of the famous Brown & Sharpe Company. This rule is also marked "Shr" for shrunk on one side with increments in tenths of inches.

<http://www.davistownmuseum.org/publications/volume10.html>

14302T16 **Screw plate** DTM MH

Tool steel, 10 1/4" long, unsigned.

This is a typical machinist tool of the mid-19th century.

TCP1004B **Set of boxed precision ground bearings** DTM MH

Tool steel, 8" long, 2 3/4" wide, unsigned.

The sizes are all hand stamped.

111001T38 **Surface gauge** DTM MH

Malleable iron and steel, 4 1/8" long, 4" high, unsigned.

This is a finely constructed tool; ornate in form with a carefully filed surface. It is typical of a shop-made tool from the beginning of the Industrial Revolution.

111001T20 **Surface gauge** DTM MH

Malleable iron and steel, 6" high, unsigned.

This is a typical shop-made tool of the era.

Davistown Museum Inventory of Tools - Maritime IV

Machinists' Tools

Status Location

22512LTC6 Tap and die set

DA TT

Drop-forged tempered alloy steel, drop-forged steel bits, 8 1/2" x 5 1/2" x 1 1/2", signed "GREENFIELD" "GERMANY" "GTD". The set includes 9 dies, 12 taps, and a T Handle from various manufacturers. Courtesy of Liberty Tool Co.

22612T6 Tenon gauge

DTM TT

Cast brass, hardwood, 8" long, 5/8" square track, 2 3/8" by 1" block, signed "**WATTS Boston**". Joseph Watts made marking gauges in Charleston, MA and marked them Boston from 1834 to 1849 (Nelson 1999, 833).

<http://www.davistownmuseum.org/bioWatts.html>

51100T7 Vernier calipers

DTM MH

Tool steel, 9 1/4" long, 3 3/4" wide jaw, signed "E. F. Sibley", 1840 - 1860. Was Sibley an owner-maker?

<http://www.davistownmuseum.org/pics/51100t6.jpg>

50402T7 Wire gauge

DTM MH

Tool steel, 3 1/4" diameter, signed "J. R. Brown & Sharpe Providence R.I. standard wire gauge 0 - 30". Joseph R. Brown and Lucian Sharpe worked together from 1853 to 1866, before the formation of Darling, Brown and Sharpe in 1866. This mark, however, was used after this date (Nelson 1999, 120).

<http://www.davistownmuseum.org/bioBrownSharpe.htm>

Measuring Tools (Except Machinist Tools)

11301T9 Adjustable calipers

DTM MH

Tool steel, 5" long, signed "W. D. Smith PAT Sep 24 67".

There is no W. D. Smith listed in DATM (Nelson 1999). Who was he and where did he make calipers?

12801T14 Bevel square

DTM MH

Wood, forged iron, and brass, 12" blade with 7 3/8" long handle, signed "Tidgewell & Co. Middletown Ct".

DATM (Nelson 1999) lists Tidgewell as working c. 1850. This is an uncommon signature and one of America's earliest manufacturers of carpenters' measuring tools. This is the only Tidgewell seen by the Liberty Tool Co. in 31 years, but we may not have looked as carefully as we should have for these often difficult to see signatures (located on the wood handle, not on the iron or steel blade.)

TCQ1001A Calipers

DTM MH

Malleable iron or steel, brass rivet, 13 1/2" long, unsigned.

TCP1004 Compass

DTM MH

Malleable iron or steel, 6" long, signed "THEWLIS & GRIFFITH".

Worrall's directory of Warrington, Wigan, St. Helens [England] (1876, 27) lists Thewlis & Griffith as file and tool manufacturers, Phoenix Works, Mercy St., indicating Thewlis Shaw as one of the principals.

42602T2 Cordage rule

DTM MH

Boxwood and brass, 6 5/8" long, 2 1/2" wide, signed on the edge of the rule "KERBY & BRO." and "____ CORDAGE CO PLYMOUTH ____".

It is also marked "Estimated Weight of Rope" with four columns marked: "CIR. INCHES", "DIA INCHES", "WEIGHT ONE FATH MANILA", and "WEIGHT ONE FATH TAND HEMP". This Kerby cordage rule is also typical of the rules made by Stanley Rule and Level Co. for wharf men and skippers. See Philip Stanley's (1984) "Boxwood and Ivory" for additional information about this type of tool. DATM (Nelson 1999, 446) lists Kerby & Bro. in New York City. Phil Platt states "Kerby & Bro were reported as rulemakers at 51 Fulton St., NY and 90 Fulton St. NY. The Kerby in both firms has always been considered the same person or of the same family. Unfortunately, I do not have any better dates to indicate which firm came first. However, I do have one barrel head gauge that carries the imprint of Kerby & Davidson makers 95 Bowery NY. The 'imprint' is very well done and impressive -- judging on that basis I would guess that Kerby & Davidson is the later or successor firm. Also 'Bowery' begins about 6 blocks north of Fulton St. and runs north (Fulton is E-W). If memory serves me 1883 saw the opening of the Brooklyn Bridge -- which probably spurred land development north of the Manhattan end of the bridge (Fulton St. is 3 blocks south of the bridge entrance). H. Davidson is listed in DATM as working 1885 forward, I have two pieces carrying the H. Davidson mark at 95 Bowery."

http://www.davistownmuseum.org/pics/42602t2_p1.jpg

http://www.davistownmuseum.org/pics/42602t2_p2.jpg

		Status	Location
82709T1	Cordage rule	DTM	MH
<p>Boxwood and brass, 4 3/4" long, 1 7/8" wide, and 3/16" thick, signed on one edge, "KERBY & BRO.N.Y." The back of the rule is marked "JOHN A. ROEBLING'S SONS CO.", "MFR'S OF WIRE ROPE", and "TRENTON, N.J.".</p> <p>John A. Roebling's Sons Co. was a wire rope manufacturer with one of its locations in Trenton, New Jersey. The company began operating around 1842 and was sold in 1952 (http://www.inventionfactory.com/history/main.html). Kerby & Bro. was a 51 Fulton St., NY, NY, maker that specialized in rules, operating from as early as 1860 (http://home.att.net/~philcannon/makers.htm#K). This rule, made by Kerby, is advertising the Roebling's wire rope.</p> <p>http://www.davistownmuseum.org/pics/82709t1-2.jpg http://www.davistownmuseum.org/pics/82709t1-1.jpg</p>			
42801T6	Dividers	DTM	MH
<p>Cast steel, signed "S H F Bingham Cast Steel".</p> <p>No SHF Bingham is listed in DATM (Nelson 1999) or in Cope's (1993) American Machinists' Tools; probably a heretofore unrecorded American toolmaker. Was there an English manufacturer with this name?</p>			
041505T37	Double calipers	DTM	MH
<p>Malleable iron or steel, signed "PAT APL'D FOR" "J.P. BARNES".</p> <p>No J. P. Barnes is listed in DATM (Nelson 1999).</p> <p>http://www.davistownmuseum.org/pics/041505t37_p2.jpg</p>			
TCP1002A	Folding rule	BDTM	MH
<p>Wood and brass, 12" long, signed "J. WATTS BOSTON".</p> <p>DATM (Nelson 1999) lists a Joseph Watts as a manufacturer of rules, bevels, gauges, scales, dress squares, and log calipers, c. 1849. This is the only J. Watts rule the curator has seen in over 30 years in the tool business. Phil Platt states "Joseph Watts' working dates were 1834 - 1849 (D.A.T.) He apparently worked at rule making, making gauges and squares in Charlestown, MA.; but, marked at least the rules 'BOSTON'. There are many Watts' family members in and around the city of Boston. Don and Anne Wing, Marion, MA (EAIA) are currently doing research on J. Watts and trying to connect him back to English rule makers. See: Milt Bacheller (2000) 'American Marking Gages' for an extensive write up on the Watts family."</p> <p>http://www.davistownmuseum.org/pics/tcp1002A_p2.jpg</p>			
090508T1	Framing square	DTM	MH
<p>Steel, 24" x 16", signed "D. J. GEORGE" "WARRANTED STEEL".</p> <p>Dennis J. George of Shaftsbury, Vermont worked from 1846 - 1859 and then merged into Eagle Square.</p> <p>http://www.davistownmuseum.org/bioEagleSq.htm</p>			
TCQ3500	Framing square	DTM	MH
<p>Cast steel, signed "H A WEST PATENTED WARRANTED ____?____ STEEL" AND "B HARMON".</p> <p>DATM (Nelson 1999) doesn't list any H. A. West as a maker of squares but it does list B. Harmon and Company as a square-maker in N. Bennington, Vt, c. 1850. Under the heading Harmon and Fay, DATM also notes that Bronson Harmon made squares in N. Bennington, Vt, c. 1848 (Nelson 1999, 134).</p>			
63001T3	Framing square	DTM	MH
<p>Cast steel, 12" x 24", signed "J. Essex CAST STEEL WARRANTED No 1".</p> <p>DATM (Nelson 1999) lists Jeremiah Essex as making squares in Bennington, Vermont, 1830 - 59 before merging with the Eagle Square Co. in 1859. The variety of numeration on this square reflects the increasing complexity of construction techniques in the early years of the Industrial Revolution and may reflect changing measurement needs for constructing newly introduced balloon frame buildings.</p> <p>http://www.davistownmuseum.org/bioEagleSq.htm</p>			
TJG1002A	Level	DTM	MH
<p>Brass and drop-forged iron, 7 3/4" long, 7/8" wide, signed with the mark "1862".</p> <p>Who made this level? Probably it is a user-made or at least a locally produced tool.</p>			
102503T3	Line level	LPC	MH
<p>Drop-forged steel, signed "H. B. BROWN".</p> <p>DATM (Nelson 1999, 119) lists H. B. Brown & Co. of New Haven, CT, 1887, as making "other" tools, including bolt and pipe cutters. This tool came directly out of a c. 1850 tool chest in southern New Hampshire.</p>			
TCQ1003	Plumb bob	DTM	MH
<p>Cast iron, 3 5/8" long, 2 1/8" wide, unsigned.</p> <p>This is a generic mid-19th century plumb bob.</p>			

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Measuring Tools (Except Machinist Tools)

	Status	Location
TCP1003A Plumb bob Cast iron, 3 3/4" long, 2 1/4" wide, unsigned.	DTM	MH
121401T1 Rule Drop-forged iron or steel, 24" long, 1 3/4" wide, signed "Revere", marked with hand stamped numerals, dated "11 17 1847". DATM (Nelson 1999) lists only one tool, a caliper, "1780" as being marked Revere. Paul Revere died in 1818. Who is Revere and when did he work? Was this once a framing square that was cut down? The rule is exactly 24" long, the last measurement marking reads only 2.	DTM	MH
041505T36 Rule Tool steel, 6" long, signed "D. & S." "BANGOR Me." "U. S. Stdn." A famous Bangor, Maine, toolmaker, Darling & Schwartz worked from 1854 - 1866. http://www.davistownmuseum.org/pics/041505t36_p1.jpg http://www.davistownmuseum.org/publications/volume10.html	DTM	MH
52603T6 Spring caliper Tempered alloy steel or tool steel, 3" long, signed "F. TROMRLEV". Perhaps the signature is Trombley?	DTM	MH
52603T7 Spring caliper Tempered alloy steel, 3 6/16" long, unsigned.	DTM	MH
052107T1 Square German steel, signed "TURNER & _____" and "GERMAN STEEL". This square is probably made from reformed blister steel rather than decarburized cast iron. http://www.davistownmuseum.org/pics/052107t1_p4.jpg http://www.davistownmuseum.org/pics/052107t1_p6.jpg	DTM	MH
32708T43 Traveler wheel Malleable iron, 11 7/8" long, 9 1/4" long handle, 7 3/4" diameter, unsigned. http://www.davistownmuseum.org/pics/32708t43-2.jpg http://www.davistownmuseum.org/pics/32708t43-1.jpg	DTM	MH
32708T44 Traveler wheel Malleable iron, wood, 13" long, 7 7/8" diameter, 9 1/4" long handle, signed "WILEY & RUSSELL MFG CO. GREENFIELD MASS." and on the back "THE GREEN RIVER TIRE WHEEL". Wiley & Russell's working dates are from 1872 - 1912. They used "Green River" and "Lightning" as brand names. http://www.davistownmuseum.org/pics/32708t44-2.jpg http://www.davistownmuseum.org/pics/32708t44-3.jpg	DTM	MH
81101T18 Try square Tempered alloy steel, 2", signed "DISSTON" and "A. MORSE", probably the owner. Henry Disston (1819 - 1878) was making saws in Philadelphia as early as 1840. See DATM (Nelson 1999, 227-9) for a complete listing of the Disston clan and their tool manufacturing operations. http://www.davistownmuseum.org/bioDisston.htm	DTM	MH
71401T14 Try square Malleable iron or steel, 7 1/4" long, unsigned. The numeration on this tool appears hand stamped. This tool reflects the transition from blacksmith-made tools to the factory system.	DTM	MH
83102T4 Wire gauge German (?) steel, signed "CARANTIE" and marked 1 to 60. The size of the gauge index for 1 to 60 is less than the United States standard gauge and doesn't seem to match Stubs steel or iron wire gauges. Could this be a Roebing or a Washburn and Moen's gauge?	DTM	MH
3405T2 Wire gauge Tool steel, 3 3/4" long, signed "LACENE Mfg. Co Manchester NH" also numerated 2 -12. It is handstamped with numerals. Lacene is not listed in DATM (Nelson 1999).	DTM	MH

3405T5 **Wire guage**

Status Location
DTM MH

Tool steel, 3" diameter, signed "C TOLLNER WARRENTED STEEL".

Charles Tollner is listed as a Bower, New York City planemaker and hardware dealer working from 1851 - 1861. He later became a partner of the famous Albert Hammacher, the New York City hardware dealer (1864 - 1884). Is this an example of either German or puddled steel?

Miscellaneous Items

TJR3501 **Cupboard**

DTM MH

Wood and glass, 12" long, 6" wide, unsigned.

31811T34 **Eyelet**

DTM TT

Forged malleable iron, 4 3/4" long, 1 7/8" diameter, signed "16" and "27".
It is tapered so it can be driven into wood.

33002T7 **Horseshoe**

DTM MH

Forged iron, 4 1/2" long, 4 1/2" wide, unsigned.
This shoe was made by a farrier for a small horse or pony.

<http://www.davistownmuseum.org/pics/33002t7.jpg>

41203T14 **Lightening rod**

LPC MH

Bronze, the longest of the 5 points is 8 1/2", unsigned.

This is a typical example of one of the many forms of 19th century lightning rods; a true sculpture object.

<http://www.davistownmuseum.org/pics/41203t14.jpg>

111001T19 **Oil can**

DTM MH

Brass, copper, and tin solder, 12 3/4" high, unsigned, c. 1850.

This is an oil can from the early days of the Industrial Revolution. Are there any known examples of oilers in tool kits that predate the Industrial Revolution other than those in watchmakers' kits?

10402T1 **Ships' clock**

LPC MH

Brass, steel, and silver, 7" diameter, signed "Seth Thomas".

This clock came from the Harvey Mills, a West Indies trader out of Thomaston, Maine. It is loaned to the Museum with Blunt's "The American Pilot," which is inscribed with the Captain's name: A. F. SPEAR Thomaston, Maine.

21805T24 **Tropical wood specimens (5)**

DTM HC

Lignum vitae (1), cocobola (2), rosewood (3), mahogany (4), and ironwood (5), (1) 9 1/2" x 1 7/8" x 2 3/8", (2) 9 1/2" x 2 1/4" x 2", (3) 5 7/16" x 3 3/16" diameter, unsigned.

(4) 12 1/2" x 2 1/8" x 2 1/4", (5) 14 3/8" x 2 3/16" x 2 1/2". These specimens are from four plane bodies and one mallet head typical of tropical woods found on coasting traders headed for New England's boat shop plane construction early to mid-19th century.

Miscellaneous Tools

21812LTC3 **Bench roller with clamp and crankshaft handle**

DA DA

Drop-forged steel, 24" tall, 12" wide, 7" handle, 6" rolling surface, signed "PEXTO" (in a circle) "PECK STOW & WILCOX CO SOUTHINGTON CONN." "945".

This is a tool commonly encountered in a sheet metal shop. The handle on the clamp is broken off. This item is courtesy of Liberty Tool Company.

<http://www.davistownmuseum.org/bio#bioPeck.html>

112704T7 **Blocks (2)**

DTM MH

Wood, rope, and malleable cast iron, First 6 1/2" long, 5" wide; second 6" long, both 4 7/8" wide with 3 1/4" diameter shives, unsigned, c. 1840.

These blocks with their homemade rope bindings are typical of mid-19th century coasting vessels. Made in small shops or factories, the cast iron sheaves have now replaced the typical wood sheave of a slightly earlier period.

TCG1001 **Blocks (matched pair)**

DTM MH

Wood (mahogany), forged iron, and malleable cast iron, 7 1/4" high, 2 3/4" wide, with 2 1/2" shives, unsigned.

These blocks are typical of tools that might have had their wooden components manufactured in coastal mill towns such as Liberty or Montville for use on coastal traders. The eyelets holding the blocks are distinctly hand-forged and the blocks themselves are distinctly handmade, but the shives appear to be factory cast.

<http://www.davistownmuseum.org/pics/tcg1001.jpg>

Davistown Museum Inventory of Tools - Maritime IV

Miscellaneous Tools

		Status	Location
31811T27	Bolt header	DTM	TT
Hand-forged welded malleable iron, 12 1/2" long, 1 3/4" x 7/8" head with a 3/4" hole, unsigned.			
31811T28	Bolt header	DTM	TT
Hand-forged welded malleable iron, 12 1/2" long, 1 7/8" round double-head with square holes 1/2" and 5/8"., unsigned.			
31501T3	Box hook	DTM	MH
Cast steel and wood, 9" long, 5" wide handle, signed "S PURDY MAKER". DATM (Nelson 1999) lists an S. Purdy as a maker of edge tools, Rome, NY, 1850. This tool is also called a Longshoremans' hook.			
TCR1001	C-clamp	DTM	MH
Forged iron, 2 1/4" wide throat, 3 1/2" deep, unsigned. This tool has a beautiful forged ram's horn bolt. The threads look fairly modern. How early is this tool?			
TCR1012	Clamp	DTM	MH
Cast or drop-forged iron, 5" long including the lever and thumbscrew with a 2" throat, signed "KNOTT BOSTON". DATM (Nelson 1999, 457) lists a L. E. Knott Apparatus Company in Boston, MA that made school science lab items. What was the function of this strange clamp? http://www.davistownmuseum.org/pics/51100t6.jpg			
TCR1021	Gasket cutter	DTM	MH
Dropped forged iron and steel, 9 7/8" long and 5 7/8" wide, unsigned, c. 1850. http://www.davistownmuseum.org/pics/tcr1021.jpg			
101400T3	Grave diggers' shovel	DTM	MH
Drop-forged iron and wood, 84 1/8" long with a 9 1/4" blade, unsigned. http://www.davistownmuseum.org/pics/101400t3_p1.jpg http://www.davistownmuseum.org/pics/101400t3_p2.jpg			
81200T5	Nail puller	DTM	MH
Drop-forged iron, wood, and brass, 16 3/4" long, unsigned, c. 1840 - 1860.			
103104T2	Pry bar	DTM	MH
Drop-forged iron, 2' long, 2 1/4" wide, unsigned. This tool is also called a wrecking iron.			
43006T8	Push screwdriver	DTM	MH
Brass and rosewood with a steel driver, 12 3/8" long including 3 3/8" wood handle and 2 11/16" bit with a capacity of 8 inserted bits, unsigned. This is an example of an early factory-made push screwdriver, but who made this 1850 - 1875 tool?			
14302T20	Screwdriver	DTM	MH
Malleable steel, size unknown, unsigned. This three pronged driver is nicely beveled.			
41203T2I	Screwdriver	DTM	MH
Forged steel, 9" long, signed "C. Drew & Co.". http://www.davistownmuseum.org/bioDrew.htm			
41203T7	Screwdriver	DTM	MH
Wrought and malleable iron, brass, and wood, 20 1/2" long with a 7 1/4" long handle and ferrule, unsigned. This is an excellent example of a smith-made screwdriver. The long iron blade has several artful twists indicating it's made of wrought iron. It also has signs of hand filing and a nicely turned handle. http://www.davistownmuseum.org/pics/41203t7_p1.jpg http://www.davistownmuseum.org/pics/41203t7_p2.jpg			
31501T7	Slaters' rip	DTM	MH
Malleable iron and steel, 31 1/4" long, signed with an obscured signature " _____ JR. _____ VT".			

Davistown Museum Inventory of Tools - Maritime IV

Miscellaneous Tools

Status Location

41203T2B **Small wrecking bar**

DTM MH

Forged steel, 12" long, signed "Drew No. 12".

<http://www.davistownmuseum.org/bioDrew.htm>

103104T1 **Soldering iron**

DTM MH

Wrought iron, brass, and copper, 16 1/4" long, unsigned.

Patternmakers' Tools

The appearance of patternmakers' tools coincides with the profusion of foundries during the early years of the Industrial Revolution. The first patternmaker's tool kits began replacing cooper's tool kits as our mercantile society moved from workshop (farm and small cooperage) production of wooden containers -- kegs, casks, boxes, etc. -- to mass production of machine made metal parts and containers. Patternmaker's tools were essential in the design and construction of the machinery used in the factories that arose during the Industrial Revolution.

TCT1005 **Awl**

DTM MH

Bronze handle and forged iron point, 5 3/8" long, unsigned.

This tool came in a patternmakers' tool chest. What was it used for? An awl? Part of a trammel? A burnisher?

TCT1002 **Gouge**

DTM MH

Cast steel, 8" long, 1" wide, signed "S.J. ADDIS CAST STEEL" on the blade back with an unusual touchmark; "ENGLAND" on the blade front.

Importing of high quality Sheffield steel tools continued well into the 20th century.

TCT1301 **Lifter**

DTM MH

Cast steel, 7 3/4" long, signed with an obscured touchmark.

TCT1007 **Lifter**

DTM MH

Drop-forged iron, 9 1/4" long, unsigned.

Lifters are used for shaping the interiors and bottom of molds for casting.

TCT1008 **Molding tool**

DTM MH

Drop-forged steel, unsigned.

It is used for smoothing the sand cast prior to pouring the molten metal into the cast.

TCT1003 **Patternmakers' slick**

DTM MH

Bronze, 7" long, unsigned.

A slick is used for shaping and smoothing sand casts. Patternmakers' slicks should not be confused with the large slicks used by shipwrights (an edge tool).

<http://www.davistownmuseum.org/pics/tct1003.jpg>

TCT1006 **Patternmakers' slick**

DTM MH

Bronze, 4 1/2" long, signed "C.H.P." (probably the manufacturer's sign), also has other letters and touchmarks.

TCT1004 **Patternmakers' slick**

DTM MH

Drop-forged iron, 5" long, signed with an obscured signature.

62202T9 **Patternmakers' slicks (2)**

DTM MH

Cast bronze, one 5 1/2" long and the other 4 3/4" long with 2 round smoothing globes at each end, unsigned.

These are typical slicks found in a patternmakers' tool kit.

<http://www.davistownmuseum.org/pics/62202t6.jpg>

TCT1001 **Spoke shave**

DTM MH

Bronze, 7 1/2" long, 1 3/16" blade, unsigned.

Patternmakers' Tools - H A Cobbett Group

42801T5 Rule

Tool steel, signed "D & S Bangor Me. U.S. Stnd" with owner signatures "Chris K. Farmer" in script and "H A Cobbett".

The Farmer signature probably predates Cobbett as the Darling & Schwartz working dates in DATM (Nelson 1999, 210) are 1854 - 1866, and Cobbett as a patternmaker appears to have worked later in the 19th century. DATM has this to say about D & S:

"Samuel Darling and Michael Schwartz (who succeeded Darling & Bailey) made squares with 1852 (possibly Nathan Ames' 6 July 1852) and 6 Oct. 1857 (Darling) patents and circular iron planes patented by George F. Evans in 1862 and 1864. The 1857 patent square was later made by Darling, Brown & Sharpe after Darling joined J. R. Brown & Sharpe in 1866. Schwartz worked otherwise as a Bangor saw maker and hardware dealer and did not join the new company." The rest of the Cobbett group are in the Industrial Revolution section.

<http://www.davistownmuseum.org/publications/volume10.html>

Quarrying Tools

914108T12 Cold chisel

DTM MH

Hand-forged malleable iron and steel, 8 1/4" long, signed "E. MILLER MS" and on the other side "S.W.T".

This chisel was probably used by stone workers.

41302T8 Feathers and wedges (lot of 12)

DTM MH

Iron, 9 feathers that are 3 3/4" long, 3 wedges that are 3 5/8" long, unsigned.

These are the traditional tools used by Maine quarrymen for splitting granite.

1302T2 Quarry grapple

DTM MH

Forged iron, 10" long, 2 1/2" x 1 1/8" wide jaws, signed "B".

This unusual tool is shaped like a very chunky pair of pliers. It comes with a shackle for lifting.

Shipwrights', Sailmakers', and Mariners' Tools

51100T6 Adjustable calipers

DTM MH

Puddled steel, 9 1/4" long, signed "E. F. Sibley", 1840 - 1860.

No E. F. Sibley is listed in DATM (Nelson 1999), however the Sibley Scythe Co. was a partnership of Ezra Taft Sibley and his son Frank Arthur Sibley of Northville, NH. Ezra was known to also work on his own. This tool probably predates the mass production of machinist measuring tools that became widespread after the Civil War. This is an outside caliper, used to measure the outside diameter of a round or cylindrical object. It has curved legs with rounded tips that come together at the center.

<http://www.davistownmuseum.org/pics/51100t6.jpg>

TCV1007 Awl

DTM MH

Steel (?), 5 3/4" long, signed "GEO. LAUTE BOSTON."

This maker is not listed in DATM (Nelson 1999). What would this awl be used for?

TKD1301 Blubber cutter (?)

DTM UNK

Forged iron or steel, 18" long with an 8" diameter cutter, signed "VAUGHAN" and "PARDOE & Co UNION WARRANTED".

Working dates for this company are 1844-1868. This tool is available for hands on perusal at the workbench in the main hall.

<http://www.davistownmuseum.org/bioVaughn.htm>

31112T3 Bodkin

DTM TT-D27

Rosewood, cast steel, brass ferrule, 11 1/2" long, 2" wide, unsigned.

Courtesy of Liberty Tool Co.

120907T6 Caulk remover

DTM TT

Forged steel, 13" long, 2" wide, unsigned.

This is a heavy hooked implement for removing caulk from ships.

3405T3 Caulking iron

DTM MH

Malleable iron and steel, 5" long, 1 3/4" wide, signed "H. Reed".

The Kingston, Massachusetts: Tool Encyclopedia states: "H. REED was a mark used by C. DREW & Co. on some of the tools they manufactured. 'H. REED' tools were less expensive than those marked 'C. DREW' and by inference were probably somewhat lower in quality."

<http://www.davistownmuseum.org/bioDrew.htm>

TCX1002 Caulking iron

DTM MH

Cast steel, 6" long, 2 1/2" wide, signed "C. DREW & CO. CAST STEEL".

http://www.davistownmuseum.org/pics/TCX1002_small.jpg

<http://www.davistownmuseum.org/bioDrew.htm>

		Status	Location
41302T10	Caulking iron	DTM	MH
<p>Malleable iron and steel, 6 1/4" long, 2 1/4" wide, signed "H Reed". H. Reed is listed in DATM (Nelson 1999) with no location or date. The following information is from Andrew Pollock: "See page 6 of the C. DREW reprint catalogue No. 34, for a listing of H. REED caulking irons. These were actually made by C. DREW & CO. for clients who wanted to pay less than what C. DREW irons would cost, and who were willing to accept somewhat lower quality." http://www.davistownmuseum.org/bioDrew.htm</p>			
120907T8	Caulking iron (2)	DTM	TT
<p>Cast steel, 7" long, 2" wide and 6" long, 1" wide, signed "C. DREW & CO" and "CAST STEEL". http://www.davistownmuseum.org/bioDrew.htm</p>			
120907T10	Caulking iron (3)	DTM	TT
<p>Steel, 5 1/2" long, 1 1/2" wide; 7" long, 2 1/4" wide; and 5 5/8" long, 1 1/2" wide, signed "J.STORTZ". This is a set of three fairly standard steel caulking irons. The medium-sized one shows significant evidence of heat treating. John Stortz worked in Philadelphia, PA starting in 1853 and later added "& Son" to the company name (Nelson 1999, 762).</p>			
120907T5	Caulking mallet	DTM	TT
<p>Wood with iron bands, 13" long, 11 1/4" wide, unsigned. This is a typical shipbuilders' caulking mallet.</p>			
120907T7	Caulking wheel	DTM	TT
<p>Drop-forged steel, 8" long, 2 1/4" wide, unsigned. This tool is used to finish caulking work on a ship.</p>			
102911T3	Chisel	DTM	TT
<p>Cast steel, signed "HOMER" "CAST STEEL", 1850. The term cast steel only describes the forge-welded "steeled cutting" edge, which is clearly visible. Also visible is the forged weld socket. It is made by Benjamin H. Homer & David C. Homer, Bucksport, Maine, 1850.</p>			
121311T5	Deck chisel	DTM	TT-D17
<p>German steel, malleable iron, and wood, 11" long, 1" wide, 4 3/4" long handle, signed "HIGGINS & LIBBY" "Portland". This is also known as a ships' carpenters' chisel. Higgins & Libby were Portland, ME, toolmakers in 1856. It is hand-forged, and while not signed cast steel, is likely to be local forged German steel. There is no evidence of laminated steel construction. It appears to be all steel extending up to a malleable iron socket. http://www.davistownmuseum.org/publications/volume10.html</p>			
TCX1001	Early ships' caulking tools (set)	BDM	MHC-K
<p>Cast steel and wood, signed "E. A. DEXTER". The set includes 13 caulking irons, a caulking mallet inventoried separately (second mallet has been stolen,) a carrying case and folding stool. It was last used to repair the U.S.S. Constitution. The maker is not listed in DATM (Nelson 1999). The demise of the cod fishery due to the withdrawal of government subsidies, the spread of railroads after the Civil War, and the depletion of forest resources all played a role in the decline of shipbuilding in the ports south and east of Liberty and Montville (Thomaston, Warren, Boothbay, Waldoboro, and Wiscasset.) In the boomtown years of Liberty and Montville, a number of ships' caulkers lived in this area and would have used tools similar to these as itinerant caulkers visiting area shipyards as needed. http://www.davistownmuseum.org/pics/tcx1001_p3.jpg http://www.davistownmuseum.org/pics/tcx1001combo.jpg</p>			
12900T4	Fid	DTM	MH
<p>Wood, 15 1/2" long, 2 5/8" maximum diameter, unsigned. A fid is used to loosen the strands of rope when splicing two pieces of rope together. http://www.davistownmuseum.org/pics/12900t4.jpg</p>			
61204T12	Fid	DTM	MH
<p>Wood, 18 1/4" long, 2 1/4" diameter, unsigned. This is a classic example of a hand fid used by a sailor for splicing rope on a ships' rigging. http://www.davistownmuseum.org/pics/61204T12.jpg</p>			

		Status	Location
040610T1	Harpoon point	DTM	MH
<p>Forge-welded malleable iron and steel, 29 1/4" long, 6" long cutting edge on the spear point, unsigned.</p> <p>This harpoon point was found in a Camden, Maine area antique shop in 1962. The maritime curator at the New Bedford Whaling Museum said, "The one thing outstanding thing about that harpoon is the workmanship. It is quite good workmanship. The steel, however, is completely wrong for an actual whaling harpoon which was made entirely of malleable iron. Shanks were long and (more or less) thin and made to bend, even twist if necessary. Harpoons were made to be used once. If a harpoon was slightly damaged at its first use, it could be employed as a 'second iron,' that is, a backup harpoon in case the first 'live iron' pulled loose. It is an interesting piece of metal work but it is not an actual whaling harpoon."</p> <p>http://www.davistownmuseum.org/pics/040610t1web1.jpg http://www.davistownmuseum.org/pics/040610t1web3.jpg</p>			
012705T3	Hawsing iron	DTM	MH
<p>Forged iron and steel, 24" long handle, 5 5/8" long and 3 1/2" wide blade, unsigned.</p>			
012705T1	Hawsing iron	DTM	MH
<p>Forged iron and weld steel, 25 1/4" long handle, 7 5/8" long and 3 1/8" wide blade, unsigned.</p>			
TCX1004	Lipped peen adz	DTM	MH
<p>Cast steel, 11 3/8" long, 4 1/4" wide blade, signed "Albertson & Co., Po'kpsy, NY". Albertson & Co. is listed in DATM (Nelson 1999, 17) as a Poughkeepsie, New York, edge toolmaker, working dates 1867-1871. This type of adz is among the most essential tools in a New England shipyard.</p>			
913108T56	Marlin spike	DTM	MH
<p>Steel, 17 3/4" long, signed "C. DREW & CO." and "MADE IN U.S.A.". The Stoney Brook Ironworks was on the same Kingston, MA, site as this company. They made edge tools and some ship-related tools.</p> <p>http://www.davistownmuseum.org/bioDrew.htm</p>			
TCX1006	Mast shave	DTM	MH
<p>Cast steel and wood, 18" wide with 8" blade, signed with an obscure mark similar to White, NY, c. 1840 - 1860.</p> <p>http://www.davistownmuseum.org/pics/TCX1006_p1.jpg</p>			
72801T1	Mast shave	BDM	MH
<p>Cast steel, wood, and brass, 22 1/2" long, 15 3/4" blade, signed "MALLET CAST STEEL" "WARRANTED WARREN ME". The uniformity of grain structure combined with the appearance and mark (cast steel) suggests a one piece construction from domestic-made cast steel. Most American-made cast steel was made in Pittsburg after 1865 and transported east by train and coasting vessels. The sharp edges of the nearly square shave extensions suggests the possibility of drop-forging using machinery now becoming readily available to most toolmakers at this time. DATM (Nelson 1999) lists James Mallet as working in Warren from 1856 - 1871. For more information see the Registry of Maine Toolmakers (2008).</p> <p>http://www.davistownmuseum.org/pics/72801t1_p3.jpg http://www.davistownmuseum.org/publications/volume10.html</p>			
120907T4	Mast shave	DTM	TT
<p>Forged steel and wood, 25" long, 2" wide blade, 5 1/2" handles, signed "L & T WHITE" "18*7" "BUFFALO N.Y." and "6" on the other side.</p> <p>This mast shave shows a very obvious weld line running parallel to the blade on its back side.</p>			
51100T2	Mast shave	DTM	MHC-F
<p>Cast steel and wood, 24" long, 14" blade, 4 1/2" handles, signed "L & I J WHITE" "BUFFALO, NY" "1837" inside an oval and also stamped "14".</p> <p>White made adzes, chisels, and drawknives, 1837f.; a most prolific maker of cooper's jiggers, drawknives, and other edge tools (Nelson 1999). Many an L. White tool has been recycled to Maine woodworkers in the last 30 years by the Liberty Tool Co.</p> <p>http://www.davistownmuseum.org/pics/51100t2.jpg http://www.davistownmuseum.org/pics/51100t2_p1.jpg</p>			
913108T1	Needle	DTM	MH
<p>Wood, 9" long, unsigned.</p> <p>This needle is used for mending nets.</p>			
111900TX2	Outside calipers	DTM	MH
<p>Forged iron, unsigned.</p> <p>These large calipers have the provenance of being used on the keels and ribbing in a Maine shipyard (Lubec).</p>			

TCX1001A Ship caulkers' mallet

BDTM MHC-K

Cast steel and wood, unsigned.

This caulking mallet is part of the ships' caulkers tool set in case K; last used to repair the U.S.S. Constitution.

http://www.davistownmuseum.org/pics/tcx1001_p4.jpg

<http://www.davistownmuseum.org/pics/tcx1001combo.jpg>

52403T1 Shipbuilders' adz

LPC MH

Cast steel, wood handle, 10" long, 5" wide cutting edge, 2 3/4" peen, 31" long handle, signed "T C Jackson Stinson Bath".

T. C. Jackson is believed to be a Bath, Maine, maker of edge tools, c. 1869. He is also listed as a Maine ax-maker, 1832 - 64 by Yeaton (2000). Also see The Registry of Maine Toolmakers (Brack 2008).

http://www.davistownmuseum.org/pics/52403t1_p1.jpg

<http://www.davistownmuseum.org/publications/volume10.html>

TCX1003 Ships' caulking iron

DTM MH

Cast steel, 5 3/4" long, 2" wide, signed "C.B. Timpson & Tucker".

There is no listing for Timpson & Tucker in DATM (Nelson 1999), but there is a listing for C. B. Timpson with no location or date.

This is an unrecorded 19th century seacoast New England ships' caulking tool manufacturing company. This and the other caulking tools in the Davistown Museum collection are typical of the caulking tools so essential in the shipbuilding trades of coastal Maine in the early to mid-19th century. Some of these ships caulkers resided in Liberty and Montville.

22512LTC13 Shipwrights' slick

DA TT

Malleable iron, steel, with forge-welded laminated steel, 24 1/2" long, 3" wide, 9" long handle, signed "G.I. MIX & CO No. 1.EX.".

DATM (Nelson 1999) lists a Mix & Co., a chisel and drawknife maker in Cheshire, Connecticut. There is a 1901 drawknife patent made by G.I. Mix & Co. of Yalesville, CT. According to the Directory of American Tool and Machinery Patents, the company was owned by Gary I. Mix whose son-in-law had the rights to that patent. A website listing silverplate marks

(<http://www.sterlingflatwarefashions.com/SPMfgs/SPM2.html>) indicates this company made flatware from 1857 to 1903. Note that Cheshire is only 5.5 miles away from Yalesville and both are considered part of Wallingford, CT. Courtesy of Liberty Tool Co.

Silversmithing Tools

TCY1003 Hammer

DTM MH

Forged or cast steel, 9 3/4" long, 2 1/2" round head, unsigned.

Is this for metalworking? Its use is unknown.

TCY1001 Tongs (3)

DTM MH

Forged iron, 6 1/2", 6 1/2", 8 3/4" long, unsigned.

These three tools were found together; what was their use? They are unusual in their diminutive size.

Unidentified Tools

81801T16 Unidentified tool

DTM MH

7 1/4" long, signed "PATENT PENDING".

This spring controlled tool combines characteristics of pliers, chain cutters, and tubing benders. What is its use?

91303T19 Unidentified tool

DTM MH

Wrought steel, 5 1/2" long, 1 3/8" wide at the top, 5/8" wide curved burnishing surface at the top, unsigned.

The bottom of this tool is shaped into a slitting cutter; the top a curved burnisher. Was this a leather working tool?

42602T7 Unidentified tool

DTM MH

Cast steel and baleen, 6 3/4" long, two 15/16" disks for trimming or cutting, 3 3/4" long baleen handle, signed "Rodgers Cutlers to his Majesty" with 2 cartouches and on reverse side "England".

Was this used for sharpening knives? It is a great whatsit. Rodgers Cutlers to His Majesty was located at No 6 Norfolk Street, Sheffield, England and made knives.

Watchmakers and Jewelers' Tools

32502T11 Awl

BDTM MH

Steel, wood, and brass, 3 1/2" long, unsigned.

<http://www.davistownmuseum.org/bioEpstein.htm>

32502T15 Burin (3)

BDTM MH

Cast steel, wood handles, unsigned.

<http://www.davistownmuseum.org/bioEpstein.htm>

Davistown Museum Inventory of Tools - Maritime IV

Watchmakers and Jewelers' Tools

	Status	Location
32502T37 Dividers	BDTM	MH
Cast steel, 3 3/8" long, signed with an obscure mark. http://www.davistownmuseum.org/bioEpstein.htm		
TCY1004 Jewelers' hammer	DTM	MH
Forged or cast steel, 2 1/4" long, 3/8" square face, signed with an obscured mark.		
32502T13 Jewelers' hammer	BDTM	MH
Cast steel, 1" long handle, 3 1/2" wide with 1/2" square chamfered face, unsigned. http://www.davistownmuseum.org/bioEpstein.htm		
102100T9 Pin vise	DTM	MH
Cast steel, 4 5/16" long, 3/8" wide jaw, signed "C HAMACHER". No C. Hamacher is listed in DATM, but several other Hamachers were making tools in New York city in the mid- to late 19th century (1864f.)		
32502T5 Punch	BDTM	MH
Cast steel, 4 1/4" long, signed "C. HARLTON CAST STEEL" and "6". http://www.davistownmuseum.org/bioEpstein.htm		
32502T17 Tweezer - clamp	BDTM	MH
Cast steel and whale bone handle, 4 5/8" long including the 2 5/8" long handle, unsigned. http://www.davistownmuseum.org/bioEpstein.htm		

Woodworking: Axes and Hatchets

914108T10 Ax	DTM	MH
Cast steel and a broken wooden handle, 4 1/2" long, 2 3/8" wide, signed "C. MAMM" "PHILAD" and "CAST STEEL". More information is sought on this obscure maker.		
22411T7 Box hatchet	DTM	TT
Hand-forged iron and steel, 14" long, 5" x 1" head, unsigned. It is also known as a barrel hatchet.		
41907T3 Broad ax	DTM	MH
Blister steel (?), 10" long, 6 7/8" wide blade, 3 1/4" long poll, signed "S. AVERY" and "WHORF CAST". S. Avery is a Wallingford, CT, edge toolmaker working circa 1849. The interesting second mark opposite S. Avery of WHORF CAST has no hint of or room for "steel" after cast. This tool appears to be a one piece blister or German steel ax due to its many imperfections. The cutting edge appears to have been subject to additional forging, but no obvious welded steel bit is evident. Numerous hammer marks can still be seen on this ax, which has the usual evidence of the folding and welding at the eye (haft hole) cheek (body) interface. http://www.davistownmuseum.org/pics/41907t3.jpg		
42710T1 Broad ax	DTM	MH
Forged iron and steel, 30 1/2" long, 10 1/4" wide head, 6 3/4" cutting edge, signed "JOSIAH FOWLER CO. LTD" with an F in a triangle. http://www.davistownmuseum.org/pics/072410t1web4.jpg http://www.davistownmuseum.org/bioFowler.html		
41203T13 Broad ax	DTM	MH
Forged iron and weld steel, 9" wide blade, signed with the distinctive touchmark of J Fowler of St. Johns, New Brunswick. This is an excellent example of a forged ax with a weld steel cutting edge. Did Fowler use cast steel as his weld steel? Probably, yes. http://www.davistownmuseum.org/pics/41203t13_p6.jpg http://www.davistownmuseum.org/bioFowler.html		
062603T1 Broad ax	DTM	MH
Forged iron and natural steel with wooden handle, 9" long, 7 1/2" wide head, 21" long handle, signed "H.BRAGG CORNVILLE.". http://www.davistownmuseum.org/pics/062603t1_p1.jpg http://www.davistownmuseum.org/publications/volume10.html		

Davistown Museum Inventory of Tools - Maritime IV

Woodworking: Axes and Hatchets

	Status	Location
72801T3 Double bitted ax	DTM	MH
Cast steel and wood, 8 3/4" long blade, 3 3/4" wide, 31 1/2" handle, signed with an obscure signature, only "Oakland" is visible along with "S.S." who might be the owner. This is a classic example of a Maine-made double bitted ax, which appears to not have been made before 1820. Unless clearly marked, many axes from this era are difficult to identify and date.		
040103T3 Felling ax	DTM	MH
Forged iron and weld steel, 6 7/8" long, 5 1/8" wide cutting blade, unsigned. This felling ax is typical of the American style felling axes produced after 1750 and would characterize the tool kit of a woodworker or shipbuilder anytime during the 19th century. The heavy poll makes this ax much more efficient than earlier English trade axes. The obvious weld steel cutting edge means that this ax predates the ubiquitous all cast steel or drop-forged steel axes of the late 19th and 20th centuries. http://www.davistownmuseum.org/pics/040103t3_p1.jpg http://www.davistownmuseum.org/pics/040103t3_p2.jpg		
42604T4 Hatchet	DTM	MH
Forged iron and weld steel, 6 3/8" long, 3 5/8" wide, 1 1/4" diameter poll, unsigned. The lower side of the hatchet has a notch and the poll end is beveled.		
TCC3003 Hatchet	DTM	MH
Forged iron and steel with wood handle, 5 3/4" long, 3/4" blade, 1" six sided peen, signed "1 UNDERHILL EDGE Tool Co.", probably dates 1850 to 1860. DATM (Nelson 1999) lists the Underhill Edge Tool Co. as Boston c. 1870-1871, however, the Underhill clan of edge toolmakers began production by 1813 or earlier (DATM lists 24 separate Underhill names 1813-1890), with tool production beginning in Boston c. 1825. Much of the Underhill activity was centered around Nashua, NH.		
111900T2 Hatchet	DTM	MH
Steel and wood, 9 1/2" long, 1 1/4" wide blade, unsigned. This is a miniature hatchet of unknown use; one of two in the Museum exhibits.		
51100T11 Hatchet	DTM	MH
Cast steel and wood, 6" long, 3 3/4" blade, signed "BLODGETT EDGE TOOL MFG." and with "2". DATM (Nelson 1999) states that the Blodgett Edge Tool Mfg. Co. was in Manchester, NH, from 1853 - 1862. It became the Amoskeag Ax Co. in 1862. They made adzes, axes, edge tools, hatchets, and shaves.		
914108T15 Hatchet	DTM	MH
Cast steel and wooden handle, 12 3/4" long, 3" long blade, signed "AMOSKEAG AX" "CAST-STEEL" and "REYNOLDS. AG". The Amoskeag Mfg. Co. was located in Manchester, NH, from the 1830s to the 1930s and made textiles and heavy machinery. They are listed as making tools only from 1849 - 56. Henry C. Reynolds of Manchester, NH, worked for Amoskeag from 1855 - 1877. He may have been the inventor of a combination hatchet they sold.		
22411T27 Hatchet head	DTM	TT
Cast steel, 5" long, 3" wide, signed "LINDLEY MORSE" "WARRANTED" "CAST STEEL". This hatchet has a claw design. DATM (Nelson 1999, 484) lists Lindley & Morse making adzes, axes, and hatches in Douglas, MA in 1855.		
100208T2 Hewing ax	DTM	MH
Steel, 7 5/8" long, 5" blade, unsigned. This hand-forged ax is unique in its distinctive welded steel bit, exactly and uniformly 2 5/8" wide on both sides of the blade. http://www.davistownmuseum.org/publications/volume10.html		
91303T20 Hewing ax	DTM	MH
Cast steel, 11 3/4" long and 7" wide blade, 3" long and 1 3/8" wide rectangular poll, 34" long new handle, signed "THAXTER PORTLAND CAST STEEL WARRENTED". This is a previously seen but unnoted Portland ax-maker, not listed in DATM (Nelson 1999). It has a probable shipyard use as a mast ax. http://www.davistownmuseum.org/pics/91303t20.jpg http://www.davistownmuseum.org/publications/volume10.html		

Davistown Museum Inventory of Tools - Maritime IV

Woodworking: Axes and Hatchets

	Status	Location
42604T5 Hewing ax	DTM	MH
Forged iron and weld steel, wood handle, wood and leather blade cover, 4 1/8" long, 6" wide blade, 2 3/4" pole, signed "JP.BILLINGS" "CLINTON" "MAINE" "556".		
http://www.davistownmuseum.org/pics/42604t5_p3.jpg http://www.davistownmuseum.org/publications/volume10.html		
41203T8 Lathing hatchet	DTM	MH
Cast steel, 6 7/8" long, 2 1/8" wide cutting blade, 12" long wooden handle, signed "US PAT OFFICE UNDERHILL BOSTON TRADEMARK".		
This is a typical cast steel tool from the prolific Underhills, who are recorded making edge tools in Boston as early as 1829. DATM (Nelson 1999, 803-805) has 18 different Underhill company listings, all in Boston or New Hampshire. At least 8 family members were toolmakers. Some tools marked Boston may have been made elsewhere and marketed in Boston.		
http://www.davistownmuseum.org/pics/41203t8_p4.jpg http://www.davistownmuseum.org/pics/41203t8_p1.jpg		
090508T9 Lathing hatchet	DTM	MH
Cast steel, 6 3/4" long, 2" wide blade, signed "UNDERHILL" and "EDGE TOOL Co".		
http://www.davistownmuseum.org/bioUnderhill.html		
091909T1 Mast ax	DTM	MH
Cast steel and wood, 27" long, 11 1/2" wide, 6" cutting edge, signed "UNDERHILL", "EDGE TOOL CO.", "WARRANTED", and "CAST STEEL".		
This ax was acquired from a 19th century Deer Isle, ME, boat shop.		
http://www.davistownmuseum.org/pics/091909t1web2.jpg http://www.davistownmuseum.org/pics/091909t1web1.jpg		
22411T26 Shingling hatchet	DTM	TT
Forged steel with a wooden handle, 12" long, 2 1/2" x 4 1/4" head, unsigned.		
This is a small size for this type of hatchet		

Woodworking: Axes and Hatchets Made in Maine

110611T4 Broad ax	DTM	TT
Welded steel, iron, with ash wood handle, 9 3/4" long blade, 9 1/2" cutting edge, 2' long handle, signed "S. EASTMAN BANGOR".		
The 1882 Maine business directory lists S. Eastman making axes and knives in both Bradford and N. Bradford Maine. This is the first Eastman edge tool in the Museum collection.		
100208T4 Mast ax	DTM	MH
Forged malleable iron and steel, 10" long, 6" wide blade, 2 5/8" long and 15/16" wide poll, signed "PAYSON _O_" and "SO HOPE, ME. WARRANT__".		
The mark is possibly Payson & Son or Payson NO. This is another variant of the marks of the Payson clan of Hope and Appleton. The Payson forge was probably located at the privledge at the drainage of Fish Pond in South Hope near Harts Mill. It was formerly in the collection of Liberty Tool Co.		
http://www.davistownmuseum.org/publications/volume10.html		
121805T27 Mast ax	DTM	MH
Steel and iron, signed "B Kelley & Co. Belfast".		
The working dates of this company were from 1855 - 1881. The origin of the steel is uncertain.		
http://www.davistownmuseum.org/pics/121805t27.jpg http://www.davistownmuseum.org/publications/volume10.html		

Woodworking: Boring Tools

TCE3001 Auger	DTM	MH
Forged iron, 16 1/2" long, 15/16" diameter, signed "N. C. SANFORD & CO 15 PATENT MAR071840".		
DATM (Nelson 1999, 688) lists Nathaniel C. Sanford & Co. working in Meridan, CT, manufacturing augers in 1851.		
111002T1 Auger	DTM	MH
Forged iron and steel, wood handle, 20 1/2" long, 2" diameter, 16" handle, signed "8 C. Drew & Co. Kingston".		
http://www.davistownmuseum.org/bioDrew.htm		

Davistown Museum Inventory of Tools - Maritime IV

Woodworking: Boring Tools

Status Location

DTM MH

TCE1003B2 Auger bit

Forged iron, 7/16" diameter cutter, signed "New Haven Copper Co. No 7".

The "No 7" indicates the size. DATM (Nelson 1999, 571) lists this company as located in Seymour, CT, 1848, maker of augers and bits.

101008T1 Rafting auger

DTM MH

Malleable iron and low carbon steel, 37 1/2" long, 6" diameter auger, signed "MFG. CO." "MASS" and "USA" the rest is obscured. There is a fair amount of hand-forging noticeable, especially in the application of the handle. There is no spiral tip on the end.

Woodworking: Edge Tools - American Made Cast Steel

31908T30 Carving chisel

DTM MH

Steel and wood, 8 5/8" long, 2 1/2" long blade, signed "WARD".

This is most likely made by W. P. Ward.

31808SLP30 Chisel

DTM TT

Steel and wood, 12" long, 6 1/2" long blade, signed "2" on both sides of the blade.

<http://www.davistownmuseum.org/pics/31808slp30.jpg>

914108T4 Chisel

DTM MH

Cast steel, 9" long, signed "J. WADSWORTH" and "CAST STEEL".

31811T17 Chisel

DTM TT-D9

Cast steel, 12 1/12" long, 3/4" wide, signed "J. BOWLIN" "CAST STEEL".

It has no handle.

31811T29 Chisel

DTM TT

Cast steel and wood, 14 1/2" long, 7" long and 1" wide blade, 7 1/2" long handle, signed "UNDERHILL" "BROWN" "LEIGHTON" "CAST STEEL".

DATM (Nelson 1999) indicates that "Nathaniel and/or John Sleeper Brown were probably part of this partnership which preceded Underhill & Brown in Auburn and Underhill & Leighton in Manchester. The Leighton was William W." The working date was 1849 in Auburn, NH.

<http://www.davistownmuseum.org/bioUnderhillandbrown.html>

62207T1 Chisel

DTM MH

Cast steel, 1 3/8" long including a 7 3/4" long handle, 1 15/16" wide, 1" iron ferrule, signed "THAMESVILLECo" "CAST STEEL".

This is probably an American-made tool but is the English style of a tanged chisel.

http://www.davistownmuseum.org/pics/062207t1_p1.jpg

http://www.davistownmuseum.org/pics/062207t1_sig.jpg

72801T5 Complex spokeshave

DTM MH

Cast iron with cast steel blades, 7 3/4" long, 1/2" curved blade and a 1 3/4" straight blade, signed "S. Smith & Son Cast Steel".

DATM (Nelson 1999, 728) lists Seymour Smith & Son as using this mark. They worked in Oakville, CT, 1854-1905 and made shaves, axes, and saw tools. Is this tool cast iron or drop forged iron? Were these blades imported from England?

31811T1 Drawknife

DTM TT

Cast steel and wooden handles, 21" long, 5" long handles, 13" long and 1 7/8" wide blade, signed "UNDERHILL BROWN & LEIGHTON CAST-STEEL".

DATM (Nelson 1999) indicates that "Nathaniel and/or John Sleeper Brown were probably part of this partnership which preceded Underhill & Brown in Auburn and Underhill & Leighton in Manchester. The Leighton was William W." The working date was 1849 in Auburn, NH.

<http://www.davistownmuseum.org/bioUnderhillandbrown.html>

71401T3 Drawknife

DTM MH

Cast steel, brass, and wood, signed "Underwood & Brown Warranted Cast Steel".

DATM (Nelson 1999) lists Underwood and Brown in Auburn, NH, 1850 - 56. One of the Underwood clan joined in business with a Nathaniel or John Sleeper Brown.

913108T26 Drawknife

DTM MH

Malleable iron and steel with wood handle, 12 1/2" long, 8" blade, signed "A. WHITTEMORE".

Amos Whittemore & Co. made cutlery, edge tools, knives, and leatherworking tools in Bennington, NH, 1855 - 1860. This tool's cutting edge is clearly welded steel. It has an uncommon New England maker's mark.

63001T7 **Drawknife**

DTM MH

Cast steel, wood, and brass ferrules, 13" long, 7" blade, signed "Wm Beatty & Son Chester PA 7".

A prolific maker of edge tools, DATM (Nelson 1999) lists Wm Beatty as working as early as 1839, by which time American-made cast steel tools were supplanting the English products.

42801T17 **Drawknife**

DTM MH

Cast steel and wood, 11 1/2" long, 6 1/8" wide blade, signed "TH Witherby Razor blade".

This is an excellent example of one of America's most famous manufacturers of edge tools. T. H. Witherby's working dates begin in 1849. He later became Witherby Tool Co. and then Winsted Edge Tool Works (Nelson 1999, 873).

<http://www.davistownmuseum.org/bioWitherby.html>

071704T5 **Drawknife**

DTM MH

Cast steel, 16 1/2" long, 8 7/8" long blade, signed "A.G.WOOD" and "CAST-STEEL".

Almost certainly this is a New England-made tool; there is no A. G. Wood listed in DATM (Nelson 1999).

<http://www.davistownmuseum.org/pics/071704t5-2.jpg>

<http://www.davistownmuseum.org/pics/071704t5-2.jpg>

22311T15 **Drawknife**

DTM TT

Steel with a wood handle, 14" long, 8" long blade, signed "P. MERRILL & CO" "8" and owner's mark "ULCE".

DATM (Nelson 1999) states that this is probably Pliny Merrill of Hinsdale, NH, c. 1856. It is part of the Robert Sullivan Collection donation.

42405T6 **Drawshave**

DTM MH

Cast steel, iron ferrules, wood handles, 14 3/8" long, 8 1/2" cutting edge, signed "M & AM DARLING CAST STEEL WARRANTED".

This is a previously unrecorded maker's mark, almost certainly American. Is there any relationship to Samuel Darling of Darling, Brown & Sharpe or other New England Darling toolmakers?

31808PC15 **Drawshave**

DTM MH

Cast steel, brass trim, and wood, 13 5/8" long, 8 3/4" long blade, signed "UNDERHILL" "& BROWN" "AUBURN N.H." "CAST STEEL" "WARRANTED" "8 1/2" and upsid down "J. T. RICH".

Underhill & Brown worked in Auburn, NH, from 1850 - 1856.

<http://www.davistownmuseum.org/bioUnderhillandbrown.html>

31908T26 **Drawshave**

DTM MH

Steel, brass trim, and wood, 14 1/2" wide, 9" long blade, signed "S. BALDWIN" on blade and "EMB" on handle.

Samuel Baldwin of Bennington, NH, had working dates from 1826 to 1870. He made axes, cutlery, drawknives, knives, leather tools, screwdrivers, and shaves.

61204T3 **Drawshave**

DTM MH

Forged and weld steel, wood handle, 18" wide, 9 3/8" long blade, signed "HIGGINS & LIBBY" "PORTLAND" "5_".

http://www.davistownmuseum.org/pics/61204t3_p1.jpg

<http://www.davistownmuseum.org/publications/volume10.html>

52403T4 **Folding drawknife**

DTM MH

Cast steel, iron, and wood handle, 10 1/2" long, 6" blade, signed "A. J. WILKINSON & CO." "MAKERS - BOSTON MASS." "PATENTED JULY 6.1895" and "6".

DATM (Nelson 1999) lists Wilkinson with the working dates of 1842 - 1893.

http://www.davistownmuseum.org/pics/52403t4_p4.jpg

http://www.davistownmuseum.org/pics/52403t4_p3.jpg

913108T42 **Framing chisel**

DTM MH

Cast steel, 11 1/2" long, 7 1/2" long blade, signed "F. DICKINSON" "CAST STEEL" and "WARRANTED".

This was made by chisel-maker Friend Dickinson, Higganum, Connecticut who started working in 1849 (Nelson 1999).

http://www.davistownmuseum.org/pics/913108t42_p2.jpg

032203T13 **Framing chisel**

DTM MH

Cast steel with a wood handle, 12 1/2" long including a 4" handle, signed "BUCK BROS" "CAST STEEL" with a bucks head touchmark.

This is a socket chisel.

http://www.davistownmuseum.org/pics/032203t10_p1.jpg

<http://www.davistownmuseum.org/bioBuckBrothers.html>

42604T8 **Framing chisel**

DTM MH "

Weld cast steel, 11 3/4" long, 2" wide, signed "T. H. WITHERBY" "WARRANTED".
This tool has an obvious weld.

<http://www.davistownmuseum.org/bioWitherby.html>

032203T10 **Framing chisel**

DTM MH

Cast steel, 16" long including a 4 3/8" handle, signed "TH WITHERBY" " Warranted".

Thomas H. Witherby began the manufacture of edge tools in Millbury, MA, in 1849, and along with the Buck Brothers and the Underhill clan, was one of the preeminent manufacturers of American-made edge tools after the Civil War. The Witherby Tool Co., and later the Winsted Edge Tool Co., continued using its founder's mark until as late as 1890.

http://www.davistownmuseum.org/pics/032203t13_p3.jpg

<http://www.davistownmuseum.org/bioWitherby.html>

112303T2 **Gouge**

DTM MH

Cast steel, 13 7/8" long, 3 1/8" wide, signed "UNDERHILL" "CAST STEEL" then upsided down "BOSTON" also "TH" made with small dots.

This is the largest gouge we have ever seen. It was discovered in conjunction with a Buck Brothers slick and other timber framing tools in an 18th century barn in Hanson, MA. Probably, it was once used in the heyday of shipbuilding on the North River at Scituate, Norwell, and Hanover.

http://www.davistownmuseum.org/pics/112303t2_p1.jpg

http://www.davistownmuseum.org/pics/112303t2_p4.jpg

14302T15 **Gouge**

DTM MH

Cast steel, brass, and wood, 9 1/2" long, 4 1/2" long handle, signed "IH" and "J. Harrison Warranted".

DATM (Nelson 1999) reports an I. Harrison bill hook but J. Harrison may be a Sheffield, England manufacturer?

81101T9 **Gouge**

DTM MH

Welded blister, cast, or German steel, wood, and iron, 14 7/8" long, 2" blade, signed "J.M. SHEFFIELD 141 AVE. CNY SOLD BY A. S. MORSE BOSTON MASS".

DATM (Nelson 1999) lists Sheffield as working in New York City, dates unknown and Stamford, CT, 1849 - 1859. This gouge was used by the Wheeler Boat Shop in Gloucester, MA. It dates from the early years of America's cast steel manufacturing. It could be manufactured from welded blister, German, or cast steel.

http://www.davistownmuseum.org/pics/81101T9_p1.jpg

http://www.davistownmuseum.org/pics/81101T9_p2.jpg

090105T1 **Gutter adz**

DTM TB

Welded steel, file steel, iron, and wood, 9 5/8" long, 4" wide head, 2 3/4" poll, 32 1/4" handle, signed "G.FLOYD" and owner's markS "J.B.L" and "R.T.W".

DATM (Nelson 1999) states that G. Floyd made adzes. We believe this to be the same as Floyd of Portland, Maine who made adzes and axes circa 1850 and the Floyd & Stanwood edge toolmakers of Portland, ME of 1855-56. This is a rare mark.

http://www.davistownmuseum.org/pics/090105t1_p2.jpg

<http://www.davistownmuseum.org/publications/volume10.html>

032203T14 **Mast shave**

DTM MH

Cast steel, 20" wide, 10" blade, signed "L. & I.J WHITE BUFFALO" "10".

White made coopers' tools and drawknives in Buffalo, NY, from 1837 to 1928. This large shave could have been used by a cooper or as a spar or mast shave. It is typical of the American-made tools found in a c. 1880 tool kit. It is another of the high quality American-made tools signaling the florescence of the domestic tool manufacturing industry in the late 19th century.

http://www.davistownmuseum.org/pics/032203t14_p2.jpg

070705T3 **Mast shave (?)**

DTM TB

Welded steel with wooden handles, 19" long with a 12 3/8" long and 2" wide cutting blade, 5 1/4" handles, signed "M.BABCOCK".

This drawshave was found in a coastal Maine workshop and the maker is not listed in DATM (Nelson 1999). It is characterized by a heavy cutting blade, welded steel construction with evidence of heavy filing, appearance 1840 - 1860. It is uncertain if this is a heavy duty coopers' shave, or as is more likely, a mast shave. If not of Maine origin, it is most certainly a New England-made edge tool.

31602T9 **Mortising chisel**

DTM MH

Wood, steel, and brass ferrule, 10 3/8" long, 5/16" wide blade, signed "T. SHAW".

Goodman's "British planemakers" (1993) lists a Thomas Shaw who was a partner in the firm Martin & Shaw of Birmingham, England, from 1843f. Could he be this T. Shaw? DATM (Nelson 1999, 710) lists T. Shaw as making shaves with no location or dates.

42904T6 Mortising chisel

DTM MH

Cast steel with wooden handle, 10 3/8" long with additional 3 1/4" handle, 3/8" wide, signed "UNDERHILL" "& BROWN" "CAST STEEL" and on the other side "WARRANTED" "AUBURN.N.Y." and "JC" owner's mark, 1850 - 1856.

This is an excellent example of the rise of American toolmakers. The hegemony of American timberframing and other heavy duty edge tools is now underway.

51100T10 Mortising chisel

DTM MH

Cast steel, 11 1/4" long, 11/16" wide, signed "UNDERHILL & LEIGHTON MANCHESTER CAST STEEL" with a owner's signature of "J.W. Benway".

DATM (Nelson 1999) states that this is thought to be a partnership of Hazen R. Underhill and William W. Leighton, both working in the Manchester, NH, area c. 1852. They were makers of chisels and edge tools. Underhill is the most prolific of all 19th century American edge toolmakers; this is a very rare mark. Hazen is only one of many toolmakers in the Underhill clan.

<http://www.davistownmuseum.org/pics/51100t10.jpg>

http://www.davistownmuseum.org/pics/51100t10_sig.jpg

12900T2 Peen adz

DTM MH

Cast steel, signed "J. Gray Kingston".

DATM (Nelson 1999) lists John Gray as an edge toolmaker, Kingston, MA, c. 1849. What was his association with his famous neighbor, Christopher Drew?

72801T4 Peen adz

DTM MH

Cast steel and wood, 10 1/2" long, 4 1/4" wide blade, 31 1/4" handle, signed "Boston Arnold".

No Arnold of Boston is listed in DATM (Nelson 1999). Who was this manufacturer of edge tools?

<http://www.davistownmuseum.org/pics/72801t4.jpg>

71401T9 Scraper

DTM MH

Cast steel, iron, and wood, signed "L M Hildreth New Haven CONN PAT Applied For".

Hildreth is not listed in DATM (Nelson 1999).

102804T2 Slick

LPC MH

Cast steel (?) and wood, signed "P. MERRILL & CO.".

DATM(Nelson 1999) states that this is probably Pliny Merrill of Hinsdale, NH, and from around 1856. He apparently worked with his nephew George S. Wilder under the name MERRILL & WILDER around 1860.

030505T1 Slick

DTM MH

Cast steel and wood, 29 1/2" long including the wooden handle, 15 1/2" long blade that is 4" wide tapering to 1.5", signed "C. STILLER" "ST. JOHN" "CAST STEEL WARRANTED".

This slick is unusual; instead of being flat across, it has a central ridge with slightly slanted sides but no beveling. It came from a Brookline, MA, collector and would have been used and traded throughout the Gulf of Maine region in the early- to mid-19th century.

http://www.davistownmuseum.org/pics/030505t1_p1.jpg

TCC2007 Socket chisel

DTM MH

Cast steel, 10 5/8" long without handle, 7/16" wide, signed "Buck Brothers, Millbury, MA", c. 1853.

The touchmark on this chisel is probably the early mark of the Buck Brothers. While Buck tools are ubiquitous, Buck Brothers tools with this mark are very uncommon. This cast steel chisel signals the presence of the factory system and the mass production of hand tools that had evolved by the middle of the 19th century.

<http://www.davistownmuseum.org/bioBuckBrothers.html>

81101T13 Socket chisel

DTM MH

Cast steel, 8 15/16" long, 1 1/2" wide, signed "F Dickinson cast steel warranted".

DATM (Nelson 1999) lists Friend Dickinson as working in Higganum, CT, 1849. This is another early example of the florescence of cast steel production in New England.

63001T4 Socket chisel

DTM MH

Cast steel, 11 3/8" long, 19/16" wide, signed "T H Witherby Warranted".

This is an extra long example of the work of one of the most important American edge tool manufacturers of the early and classic periods of the Industrial Revolution. Thomas H. Witherby began making tools in Millbury, Mass., in 1849 and later became the Witherby Tool Co., c. 1868 and around 1890 the Winsted Edge Tool Works (Nelson 1999, 871 - 873).

<http://www.davistownmuseum.org/bioWitherby.html>

4106T7 Socket gouge

DTM MH

Steel, 6" long, 1 3/4" wide, signed "D. R. Barton 1832" with Barton's traditional hallmark.

This tool is hand-forged and may represent the transition from forge welded steeling to drop-forging. What kind of steel is this tool made from? D. R. Barton was a prolific Rochester, NY, edge and coopers' tool manufacturer.

http://www.davistownmuseum.org/pics/4106t7_p3.jpg

<http://www.davistownmuseum.org/bioBarton.html>

71401T17 Spokeshave

BDTM MH

Cast iron, steel, and brass, 10 1/4" long, 2 1/4" wide blade, signed on the brass nut holding the blade "Bailey's Pat. July 13 58".

This is an excellent example of Leonard Bailey's tools before he joined in partnership with Augustus Stanley to form the Stanley Tool Co. For more information see Roger Smith's (1960) "Patented Transitional and Metallic Planes" Vol. I pg. 41 - 58 and Vol. II pg. 21 - 38.

<http://www.davistownmuseum.org/pics/71401t17.jpg>

TCC2009 Tang chisel

DTM MH

Cast steel, 5" long, 7/8" wide, signed "Buck Brothers Made of American Steel".

This is another unusual Buck Brothers' touchmark.

<http://www.davistownmuseum.org/bioBuckBrothers.html>

31908T19 Tapping chisel

DTM MH

German steel and wood, 16 1/2" long, 8 1/2" long blade, 1 1/2" wide, signed "Gl. MIX & Co" "YALE" and "EX".

This might be Mix & Co., a chisel and drawknife maker in Cheshire, Connecticut.

<http://www.davistownmuseum.org/pics/31908t19.jpg>

<http://www.davistownmuseum.org/pics/31908t19-2.jpg>

31908T22 Timber framing chisel

DTM MH

Cast steel and wood, 14 1/4" long, 6 1/2" blade, signed "THE" "R E RIFLEWORKS" "CAST STEEL" and "WARRANTED", Rifleworks is in an arch shape.

31908T20 Timber framing chisel

DTM MH

Cast steel and wood, 16 1/2" long with an 8" long blade, 2" wide, signed "CAST STEEL" and a partially obscured "BL_".

The signature is possibly Buck Brothers.

<http://www.davistownmuseum.org/pics/31908t20.jpg>

<http://www.davistownmuseum.org/pics/31908t20-3.jpg>

032707T1 Timber framing chisel

DTM MH

Cast steel with wood handle, 15 1/4" long including 5" long handle, 1 1/2" wide cutting edge, signed "UNDERHILL" and "EDGE TOOL CO" on chisel with owner mark "O T HAINES" on wood handle.

The Underhill Edge Tool Co. operated in Nashua, NH, 1852 - 1890.

http://www.davistownmuseum.org/pics/032707t1_p1.jpg

http://www.davistownmuseum.org/pics/032707t1_p2.jpg

42405T5 Wood chisel

DTM MH

Cast steel, wood handle, 13 1/4" long including a 7 3/8" long handle, 1 1/2" wide, signed "Thamesville Co. Cast Steel".

This is a run of the mill edge tool except for its mark, which is not listed in DATM (Nelson 1999). It does list a Thames Tool Co. in Connecticut, but no dates for it. This mark has not been observed before by us. There is a Thamesville, CT and a Thamesville, Ontario, Canada. Almost certainly, it is an obscure Connecticut toolmaker.

Woodworking: Edge Tools - Forged

31908PC4 Adz

DTM MH

Steel and wood, 30" long, 5" wide blade, signed "JOSIAH FOWLER CO. LT." and "ST. JOHN N.B.".

<http://www.davistownmuseum.org/pics/31808pc4p1.jpg>

<http://www.davistownmuseum.org/bioFowler.html>

040103T12 Block poll adz

DTM MH

Forged steel, 8" long, 4 3/8" wide blade, signed with what appears to be a touchmark of J Fowler.

Josiah Fowler was a St. John, New Brunswick, Canada, edge toolmaker. A hefty and finely made block adz, this tool seems to be 100% cast steel with no evidence of a weld steel lap.

http://www.davistownmuseum.org/pics/040103t12_p1.jpg

<http://www.davistownmuseum.org/bioFowler.html>

Davistown Museum Inventory of Tools - Maritime IV

Woodworking: Edge Tools - Forged

	Status	Location
<p>41203T2G Brick chisel</p> <p>Forged steel, 6 7/8" long, 2 7/8" wide, signed "C. Drew & Co." http://www.davistownmuseum.org/bioDrew.htm</p>	DTM	MH
<p>41203T2F Cat's paw</p> <p>Forged steel, 10 1/2" long, signed "C. Drew CAT'S PAW - 277". http://www.davistownmuseum.org/bioDrew.htm</p>	DTM	MH
<p>913108T46A Chisel</p> <p>Iron and steel blade, brass ferrule, and wood handle, 15 3/4" long, 7 1/2" long blade, signed "G. H. TUCKER". This maker is not listed in DATM (Nelson 1999), perhaps it is English-made. http://www.davistownmuseum.org/pics/913108t46A_p2.jpg</p>	DTM	MH
<p>70701T9 Cold chisel</p> <p>Steel, 6" long, 1/2" wide, signed "C Drew & Co". http://www.davistownmuseum.org/bioDrew.htm</p>	DTM	MH
<p>41203T2J Cold chisels and punches (12)</p> <p>Forged steel, from 4 1/2" to 8 1/4" long, signed "C. Drew & Co." http://www.davistownmuseum.org/pics/41203t2_p4.jpg http://www.davistownmuseum.org/bioDrew.htm</p>	DTM	MH
<p>22311T17 Drawknife</p> <p>Forged wrought iron and steel, brass ferrules, and a wood handle, 16" long, 8" long blade, signed "JAS". This drawknife is handmade with a unique straight extended handle on the left side. The blade has a tool steel cutting edge hand-forged to the malleable iron body. Part of the Robert Sullivan Collection donation.</p>	DTM	TT
<p>100605T4 Drawknife</p> <p>Weld steel with wooden handles, 17 3/4" wide including a 11 5/8" cutting edge, signed "W. FARNHAM". This tool was made by William Farnham of Richmond, Maine. http://www.davistownmuseum.org/publications/volume10.html</p>	DTM	TB
<p>071704T4 Drawknife</p> <p>Welded steel and iron, wood handles, 13" long, 6 1/2" long blade, signed "George", c. 1850. This drawknife was made by Currier George, Danville, NH.</p>	DTM	MH
<p>051310T1 Drawshave</p> <p>Forge-welded iron and steel, brass, and wood, 15" long, 4 1/2" wide, signed "H. E. Abbott" with two arrows, one on either side of the name, both pointing towards the name. This maker is not in DATM (Nelson 1999).</p>	DTM	MH
<p>121805T1 Drawshave</p> <p>Steel, wood handles, brass ferrules, 12" wide, 7 3/16" long cutting blade, signed "G. BARNAR__". This is probably G Barnard of Watertown, NY (DATM 1999, 58). http://www.davistownmuseum.org/pics/121805T1_p2.jpg</p>	DTM	MH
<p>090508T6 Expansion bit</p> <p>Metal, 9" long, signed "__ GIBBS" "NY" "PATENT" "JUNE 17 1855" and also stamped "H. M. WILSON" on the side. The initials on the mark on this tool are obscured. It is L. H. Gibbs who received this patent. At the time, he was living in Washington, DC. It is unclear if he made the bit or if he moved to NY (Nelson 1999). http://www.davistownmuseum.org/pics/090508t6-bw-4_web.jpg http://www.davistownmuseum.org/pics/090508t6-bw-1-web.jpg</p>	DTM	MH
<p>52907T4 Framing chisel (socket type)</p> <p>Steel, forged malleable iron, wood handle with an iron tang, 14 7/8" long with a 4 1/2" handle, 1 15/16" wide, unsigned. This unmarked edge tool is significant in that as a damaged tool with a broken off cutting edge, it clearly shows to common techniques of welding (cast?) steel to the bottom of a forged malleable iron body. The steel iron interface is clearly visible on the bottom of the tool, but not on the top surface, which appears to be all steel. The fracture of the break clearly illustrates the lower quality of the iron body of the chisel - it in front also looks like a lower quality white or malleable cast iron. http://www.davistownmuseum.org/pics/52907t4_pic1.jpg http://www.davistownmuseum.org/pics/52907t4_pic2.jpg</p>	DTM	MH

Davistown Museum Inventory of Tools - Maritime IV

Woodworking: Edge Tools - Forged

	Status	Location
42607T4 Gouge	DTM	MH
German steel, iron, and wood, 11 5/8" long including a 5 1/8" long handle and 1 5/16" wide blade, signed "PEUGEOT FRERES" with a man in the moon hallmark. This gouge has iron ferrules.		
40107T1 Mortising chisel	DTM	MH
Weld steel and malleable iron, 13 1/2" long, 1/2" wide including a 1 3/4" wood handle and iron ferrule, signed "HOWAR_", c. 1865. It was probably made by a predecessor to the Howard Mfg. Co. of Belfast. This is a typical weld steel edge tool made of malleable iron with clearly visible alloy inclusions and the traditional welded steel cutting edge on the bottom of the chisel, angling towards the top of the chisel from mid-tool to the cutting edge. http://www.davistownmuseum.org/pics/40107t1_pic1.jpg http://www.davistownmuseum.org/pics/40107t1_sig.jpg		
041505T24 Mortising chisel	DTM	MH
Forged iron and steel, 10 7/8" long, signed "UNDERHILL" "EDGE TOOL Co.". The Underhill Edge Tool Co. operated in Nashua, NH, 1852 - 1890. This is a particularly interesting specimen of an edge tool. The Underhills made some of the finest cast steel edge tools ever made in the US. This particular tool is not cast steel, but forged iron and weld cast or blister steel (probably the latter as it is not marked cast steel.) What is unusual is the appearance, in the iron component above the weld, of the tell tale inclusion of wrought iron illustrating that this particular tool was made of relatively unrefined wrought iron. The lower quality iron resulted in an irregular (but obvious) weld in an unusual anomaly for a company that usually made the finest edge tools. In this case, was this bog iron from a local source? If so, it is unusual for this late date (ca. 1855). http://www.davistownmuseum.org/pics/041505t24_p2.jpg http://www.davistownmuseum.org/pics/041505t24.jpg		
41203T2A Pry bar	DTM	MH
Forged steel, 15 1/4" long, signed "C. Drew and Company". http://www.davistownmuseum.org/bioDrew.htm		
3312T116 Putty knife (scraper)	DTM	TT
Drop-forged malleable iron or steel blade, rosewood handle, 8" long, 4" wide blade, signed "RUSSELL" "GREEN RIVER WORKS" and stamped on the handle "535" and "4". John Russell & Co. was located in Greenfield and Deerfield, MA, from 1832 to 1865 (Nelson 1999). Courtesy of Liberty Tool Co. http://www.davistownmuseum.org/bioRussel.html		
31011T2 Reamer	DTM	TT
Forged malleable iron and steel, 7" long, 3" x 1" cutting area, unsigned. This is a handmade tapered convex-shaped reamer.		
62202T3 Slick	DTM	MH
Forged steel with birch handle, 28 1/4" long, 2" wide, 9" long nicely turned handle, unsigned. This tool is an exquisite example of a finely forged edge tool, date and location of manufacture unknown. Joel Pontz of the Plimouth Plantation (Plymouth, MA) purchased this tool at a yard sale many years ago for one dollar. http://www.davistownmuseum.org/pics/62202t3.jpg		
TCS1003 Socket chisel	BDTM	MH
Cast steel, 7 1/4" long, signed "J Fowler St John NB". This is the only edge tool we have ever seen with the full signature of this most important St. John, New Brunswick, maker of ships carpenters' adzes, which are usually only signed with his touchmark. This mundane appearing tool is among the most important edge tools in the Museum collection; the only signed Fowler tool we have located. http://www.davistownmuseum.org/bioFowler.html		
81200T13 Wood chisel	DTM	MHC-J
Forged iron, wood, and lead, 10 1/2" long with a 6" blade, 5/8" wide, signed "Chas Mellor", 1850 (?). It has an early lead inlaid handle. The only Mellor in DATM (Nelson 1999) is from Sedalia, MO.		
41203T2C Wood chisels (2)	DTM	MH
Forged steel, 1/2" wide and 1 1/2" wide, signed "C. Drew & Co.". These have a yellow plastic handle c. 1960. http://www.davistownmuseum.org/bioDrew.htm		

Woodworking: Edge Tools - Imported English Cast Steel

- 31908T25 **Carving tool** DTM MH
 Cast steel and wood, 2 5/8" long curved blade, signed "HERRING BROS" and "LONDON".
- 041505T2 **Caulking iron** DTM MH
 Cast steel, 8" long, 2" wide blade, signed "J.STOR".
 Stor is not listed in DATM (Nelson 1999), almost certainly this is a German import. A not uncommon mark on caulking irons.
http://www.davistownmuseum.org/pics/041505t2_p1.jpg
- 31908T24 **Chisel** DTM MH
 Steel, 4 1/2" long blade, 1 1/4" wide, signed "BERG. STAHL" "IND.GES" on front of the blade and "GUSSTAHL" on the back with a crossed sword mark.
 It has no handle.
- 31908T23 **Chisel** DTM MH
 Cast steel, copper, and wood, signed "J. N. CUTLER" "PIONEER" and "CARBONIZED CAST STEEL", there is also a crossed x mark.
<http://www.davistownmuseum.org/pics/31908t23-1.jpg>
<http://www.davistownmuseum.org/pics/31908t23-2.jpg>
- 091309T1 **Chisel** DTM MH
 Cast steel and wood, 11 1/2" long, 1 1/4" wide, 5/16" cutting edge, signed "I. & H. Sorby".
 "John Sorby was the brother of Thomas and hence uncle of Robert [Sorby]. He too was engaged in the manufacture of edge tools, joiners tools, saws, sheep shears, files and followed the family tradition by being appointed Master Cutler in 1806. After his retirement his two sons, John and Henry, continued the business and started to use the trade mark 'I & H Sorby'. Although John Sorby & Sons was acquired first in 1849 by Lockwood Brothers - cousins of the family - and later by both Turner, Naylor and Co and William Marples, the 'I and H Sorby' mark was still used well into the twentieth century." (http://www.robert-sorby.co.uk/company_info.htm).
- 121805T14 **Chisel** DTM MH
 Cast steel and wood, 9" long including 3 3/8" tanged chisel, signed "IBBOTSON SHEFFIELD PAT CHRYSTALIZED CAST STEEL".
 This has an anomalous mark by a prolific maker. The significance of chrystalized is yet to be explained.
http://www.davistownmuseum.org/pics/121805t14_p2.jpg
- 913108T46B **Countersink** DTM MH
 Cast steel, 4" long, signed "MORRISON & PARKER".
 This is an English maker, the name shows up in the "Official Descriptive and Illustrated Catalogue of the Great Exhibition of 1851" (books.google.com). They are listed as located on Rockinghamshire St, Sheffield and as making carpenters' braces and center bits, spirit levels, gauges, saw pads, augers, and other tools. The countersink is notched, suggesting that it goes in a gentlemen's brace.
- 102904T14 **Framing chisel** DTM MH
 Forged iron and weld steel, 11 5/8" long, 2" wide, signed "W. BROOKES & SONS".
 It has no handle. It has clear evidence of hand filing. W. Brookes & Sons is not listed in DATM (Nelson 1999). The signature is very clear and not obscured. This chisel is a typical 19th century timber framing tool. A Sheffield Trades listing from 1857 gives: "Brookes W. & Sons, Carlisle st" as makers of edge tools, cutlery, razors, etc.
http://www.davistownmuseum.org/pics/102904t14_p1.jpg
- 090109T5 **Gouge** DTM MH
 Cast steel, brass, and rosewood, 12" long including a 4 1/2" long handle, 1" wide cutting edge, signed "KNOWLES" and "SHEFFIELD".
 The mark may be "KNOWLES & Co", the last part is obscured.
<http://www.davistownmuseum.org/pics/090109T5web2.jpg>
<http://www.davistownmuseum.org/pics/090109T5web3.jpg>

913108T44 **Gouge**

DTM MH

Iron and steel with a wooden handle, 15" long, 10" long blade, signed "ASKHAM & MOSFORTH".

This gouge was made by John Askham and Thomas Mosforth, 57 Broad Lane, Sheffield, England. It would have been made between 1852 and 1855. They also made chisels, and knives of various designs - table knives, pocket knives, spring bladed knives etc. They did have an office in New York, and Askham was there for some years as he carried on the business when the Askham and Mosforth partnership was dissolved in 1855. The company was then called 'Askham'. Thomas Mosforth died in 1857 at the age of 36. the Askham and Mosforth company was originally Frost, Askham and Mosforth 1850-1852 (Frost retired in 1852). This information courtesy of Thomas Mosforth's great, great, great niece.

http://www.davistownmuseum.org/biopics/Askham_letterhead.jpg

<http://www.davistownmuseum.org/biopics/BroadLaneWorks.jpg>

71401T21 **Gouge**

DTM MH

Cast steel, 8 1/2" long, 3 1/2" handle, signed "Schroder & Arete".

This is an unusual signature of an as yet unidentified European (?) manufacturer.

51703T2 **Tanged firmed chisel**

DTM MH

Cast steel, brass ferrule, and wood handle, 10 1/2" long, includes a 6" long handle, 5/8" wide cutting edge, signed "W. Butcher Cast Steel".

The Butcher cartouche is clearly imprinted on the reverse side of the chisel shoulder. Butcher was one of the most prolific Sheffield edge toolmakers and their tools were imported to the colonies and the republic until the late 19th century.

041505T27 **Turning tool**

DTM MH

Cast steel, iron ferrule, and wood handle, 15" long including a 6 5/8" handle, 1 1/2" wide, signed "R GROVER & SON" "CAST STEEL" with crown hallmark.

This is a typical mid-19th century import from one of Sheffield's foremost edge toolmakers.

<http://www.davistownmuseum.org/pics/041505t27.jpg>

Woodworking: Edge Tools Made in Maine33011T2 **Adz**

DTM TT

Cast steel with oak handle, 8 1/2" long, 4" wide head and 36" long handle, signed "VAUGHN" "____" "WARRAN__" and "UNION". This adz has a spike head. The signature is difficult to read but appears to be Vaughn and Pardoe.

<http://www.davistownmuseum.org/bioVaughn.htm>

121906T2 **Adz**

DTM MH

Steel with wooden handle, 9 7/8" long including a 2 1/2" peen, 5 7/16" wide, 2 7/8" long handle shaft, 31 1/4" long handle, signed "J P BILLINGS CLINTON MAINE".

This adz is the only known example of a J. P. Billings shipwrights' adz. This adz has the lip of the Yankee pattern adz, the most popular adz for New England's shipwrights. Surprisingly, the tool, obviously of high quality steel is not marked cast steel, again raising the question of the type of steel used by New England edge toolmakers before the Civil War. Also of interest is the extent to which Billings and other Waterville area shipsmiths and edge toolmakers supplied the bustling shipyards downstream at Richmond, Dresden, and Bath (etc.) on the Kennebec River. Was Billings also a shipsmith producing some of the ironware needed by the sailing ships being built in the lower Kennebec, or was he only an edge toolmaker? J. P. Billings was one of many members of the Billings clan of blacksmiths and edge toolmakers whose activities date at least to the early 19th century and extend almost to the 20th century. More information about this obviously important edge toolmaker and his relationship to the booming shipbuilding towns on the lower Kennebec would be greatly appreciated.

http://www.davistownmuseum.org/pics/121906T2_p1.jpg

<http://www.davistownmuseum.org/publications/volume10.html>

40107T2 **Block adz**

DTM MH

Iron and cast steel, 8 1/2" long, 4 3/8" wide cutting blade, 2" wide block end, signed "J. THAXTER" "PORTLAND" and "CAST STEEL".

This slightly defective block adz is interesting as an example of a welded steel or steeled adz with clear defects in the body of the rather wide cutting blade. On the block a late weld (1920s?) suggests it may have had a peen, yet its haft and breadth suggests a railroad adz.

<http://www.davistownmuseum.org/pics/40107t2.jpg>

<http://www.davistownmuseum.org/publications/volume10.html>

		Status	Location
52403T3	Clapboard slick	LPC	MH
Cast steel, wood handle, 21 1/2" long, 4 3/4" wide cutting edge, 14 1/2" beveled steel handle, 4 3/4" long turned wood handle, signed "BILLINGS AUGUSTA".			
Another fine production of the Billings clan -- this one is by the Augusta drawknife maker, first name and date of manufacture are not yet available.			
http://www.davistownmuseum.org/pics/52403t3_p3.jpg			
http://www.davistownmuseum.org/publications/volume10.html			
062603T2	Clapboard slick	DTM	MH
Cast iron with a wooden handle, 34 3/8" total length, 15 3/4" handle, 4" wide blade, signed "VAUGHAN PARDOE & Co UNION WARRANTED".			
http://www.davistownmuseum.org/pics/062603t2_p1.jpg			
http://www.davistownmuseum.org/bioVaughn.htm			
21201T3	Clapboard slick	DTM	MH
Weld steel, 29 3/4" long including a 7" handle, 2 3/16" wide blade, signed "_UGHAN & PARDO_ UNION WARRANTEED".			
This is made by Vaughan & Pardoe of Union, Maine. Working dates for this company are 1844-1868. It is a gift to The Davistown Museum from Rick Floyd of Newport, ME.			
http://www.davistownmuseum.org/pics/21201t3_p3.jpg			
http://www.davistownmuseum.org/bioVaughn.htm			
30801T2	Drawknife	DTM	MH
Weld steel, wood handles, 19" wide, 13 3/4" blade, signed "J M DENNIS EAST NEW-PORTLAND".			
The steel-iron interface in this edge tool has been made nearly invisible by careful forge welding. Only one or two other J. M. Dennis tools are known to exist. The Directory of American Toolmakers (DATM, 1999) lists Dennis as an ax and edge toolmaker, c. 1856. The Davistown Museum is looking for more information on this toolmaker. Donated by Roger K. Smith.			
http://www.davistownmuseum.org/pics/30801t2_p3.jpg			
http://www.davistownmuseum.org/publications/volume10.html			
62504T1	Drawknife	DTM	MH
Weld steel, iron, wood, 15 3/4" long, 10 1/4" blade, signed "G.B. RICKER" "CHERRYFIELD".			
This is a nicely made steeled drawknife in the English style, made by one of Downeast Maine's most prolific toolmakers. Question: where was the steel in this tool made? This tool probably dates from the third quarter of the 19th century.			
http://www.davistownmuseum.org/pics/62504t1_p3.jpg			
http://www.davistownmuseum.org/publications/volume10.html			
31908T33	Drawshave	DTM	MH
Steel and wood, 18" wide, 12" long blade, signed "B.R.MOWRY".			
Bradley R. Mowry of Union, Maine worked from 1820 - 1860 making adzes and edge tools.			
http://www.davistownmuseum.org/pics/31908t33p2.jpg			
http://www.davistownmuseum.org/publications/volume10.html			
51606T1	Framing chisel	DTM	MH
Forge-welded iron and steel, 11" long, 1 7/16" wide, signed "A. SMART".			
This is probably Alfred Smart of Pittston, ME, listed in the 1856 business directory. This tool appears earlier than 1856, e.g. 1810 - 1820. This is the only recorded edge tool with this mark. It was donated to the Davistown Museum by Chris of Belfast, Maine.			
http://www.davistownmuseum.org/pics/51606t1.jpg			
http://www.davistownmuseum.org/publications/volume10.html			
91501T1	Framing chisel	DTM	MH
Forged iron and natural steel with wood handle, 15 3/4" long including 4" long handle, signed "C. LOVEJOY" "CHESTERVILLE".			
DATM (Nelson 1999, 495) lists Leonard R. Lovejoy of Chesterville, ME as an ax-maker, 1869-1878. Possibly this is a relative? Clearly hand-forged, this is an excellent example of a small production forge banging out a natural steel edge tool. If a steel-iron interface exists, it is not visible. The most likely manufacturing strategy for this tool is that its cutting edge was subject to additional mechanical (hammering) and heat (tempering) treatment during forge welding making a functional edge tool out of a raw steel bloom.			
http://www.davistownmuseum.org/pics/91501t1_p4.jpg			
http://www.davistownmuseum.org/publications/volume10.html			

		Status	Location
32103T1	Fro	DTM	MH
Forged iron and natural steel (?), wood handle, 14" long, 11" long cutting edge, 12 1/2" long handle, signed "W. M. WINN CLINTON WARRANTED".			
No clear iron-steel interface is visible on this tool, but imperfections on the cutting edge, especially on the back (not visible) suggest the possibility of direct process forge welding of a carburized bloom of wrought iron, or alternatively, the forge welding of a piece of puddled, blister, or German steel. This is a newly discovered Maine edge toolmaker, courtesy of Rick Floyd. A large H marked next to the maker's stamp is probably the owner's mark.			
http://www.davistownmuseum.org/pics/032103t1_p1.jpg			
http://www.davistownmuseum.org/publications/volume10.html			
61204T17	Gouge	DTM	MH
Forged iron and weld steel, wood, 22" long including 11" handle, 2 9/16" wide, signed "HIGGINS & LIBBY" "PORTLAND".			
This gouge has a clearly hand-forged iron socket, but evidence of a welded iron-steel interface has been obliterated by forge welding of the highest quality. It is a finely wrought slick-like gouge from the golden age of Maine's shipbuilding era made by a major Maine edge toolmaker. It is of the quality of cast steel, but not marked as such. This forged steel edge tool shows how good Maine blacksmiths' were at making steel edge tools during the florescence of Maine's shipbuilding era; the quality of this edge tool suggests Higgins & Libby had perfected the art of piling and forging blister steel into shear steel, in the tradition of the German immigrants at Shotley Bridge and elsewhere in England, who perfected the art of re-forging blister steel in the very late 17th and early 18th century.			
http://www.davistownmuseum.org/pics/61204T17_p1.jpg			
http://www.davistownmuseum.org/publications/volume10.html			
111001T3	Gouge	DTM	MH
Cast steel and wood, 14" long with 4 1/2" handle, 1 1/4" wide cutting edge, signed "Vaughan Pardoe & Co Warranted Union".			
The working dates for this company are 1844-1868.			
http://www.davistownmuseum.org/pics/111001t3_p2.jpg			
http://www.davistownmuseum.org/bioVaughn.htm			
TBC1002	Gouge	DTM	MH
Forged iron and steel, 1 3/4" diameter, 13 3/4" long, with 6" handle and hand forged ferrule, signed "HIGGINS & LIBBY".			
This company is listed in DATM (Nelson 1999) as a Portland, Maine, ax and chisel maker, 1856.			
http://www.davistownmuseum.org/pics/TBC1002_p3.jpg			
http://www.davistownmuseum.org/publications/volume10.html			
31501T5	Gouge	DTM	MH
Forged iron and weld steel, 9 1/16" long, 1 1/8" wide blade, signed "VAUGHN" "TO__ & Co" " WARRANTED WARRANTED".			
No Vaughn To... Co. is listed in DATM (Nelson 1999). More information is wanted about this maker's sign. Could this be Vaughan & Pardoe?			
http://www.davistownmuseum.org/bioVaughn.htm			
61204T2	Gutter adz	DTM	MH
Forged and weld steel and wood, 10 3/4" long, 2 1/2" wide, 2 1/2" diameter adz, 16" wood handle, signed "VAUGHN & PARDOE UNION".			
A welded steel-iron interface is clearly visible on this tool, which also shows extensive evidence of forge welding. The mark is partially obscured. Vaughn & Pardoe was a prolific Union, Maine, edge toolmaker working in the mid-19th century.			
http://www.davistownmuseum.org/pics/61204t2_p12.jpg			
http://www.davistownmuseum.org/bioVaughn.htm			
31908T16	Mortsing gouge	DTM	MH
Steel and wood, 17 5/8" long, 8" long blade, signed "VAUGHAN" " & PARDOE" "UNION" and "WARRANTED".			
http://www.davistownmuseum.org/pics/31908t16p1.jpg			
http://www.davistownmuseum.org/bioVaughn.htm			
10606T1	Peen adz	DTM	MH
Forged steel, 9" long, 3 1/2" cutting edge, 3/4" diameter, signed "Thaxter Portlan_", the last letter is illegible.			
This run-of-the-mill peen adz is clearly by the same Portland, Maine, edge toolmaker as the hewing ax marked "Thaxter" in the Davistown Museum collection (ID # 91303T-20). As with many tools of this era, +/- 1850 - 70, the steel in the cutting edge of this adz is of a higher quality than the puddled steel body of this tool. This tool exhibits the mix of machine forming (drop-forging) and hand work (forge welding, as in the forge-welded peen) that characterizes many of the hand tools manufactured just prior to the era of factory-made tools.			
http://www.davistownmuseum.org/pics/10606t1_p2.jpg			
http://www.davistownmuseum.org/publications/volume10.html			

020807T1 Peen adz

DTM MH

Iron with wood handle, 10" long, 4 1/8" wide adz head, 2 1/4" long, 3/4" diameter beveled peen, 28" long handle, signed "J. F. AMES" and "PE__RKING", probably an owner's mark.

J. F. Ames made edge tools in Richmond, Maine, c. 1855.

http://www.davistownmuseum.org/pics/020807T1_p3.jpg

<http://www.davistownmuseum.org/bio#publications/volume10.html>

040904T1 Slick

DTM MH

Forged or cast steel, 16 1/2" long, 6 7/8" long body with a 3 11/16" wide blade, signed "B. KELLEY & CO" "BELFAST" with owner's mark "HOMER N D G".

This tool appears to be all steel, with a higher quality cutting edge welded to the steel body. This slick is from the Spear Estate, Warren, Maine. It is an important and rare example of a prominent Belfast, Maine, edge toolmaker. It is used for cleaning up the sides of large mortises in construction and shipbuilding, and for leveling surfaces as on the deck of a ship. Slicks are particularly useful to shipwrights in areas that cannot be reached by an adz. They are often pushed by the shoulder, hence the swollen top of the wooden handle.

http://www.davistownmuseum.org/pics/040904t1_p1.jpg

<http://www.davistownmuseum.org/publications/volume10.html>

42604T2 Socket chisel

DTM MH

Forged iron and welded steel, 8 1/4" long, 1 1/2" wide, signed "LIBBY & BOLTON".

Iron and steel with the welded iron steel interface clearly visible, this mundane edge tool is typical of those found in the workshops and boatyards of mid-19th century Maine, but has the signature of one of Maine's most important edge toolmakers. It was made in Portland, Maine, probably in the late 1850s.

http://www.davistownmuseum.org/pics/42604t2_p5.jpg

<http://www.davistownmuseum.org/publications/volume10.html>

41801T7 Socket chisel

DTM MH

Cast steel with wood handle, 12" long, 5" wood handle, signed "VAUGHAN & PARDOE UNION WARRANTED".

Working dates for this company are 1844-1868. This was a gift to The Davistown Museum from Rick Floyd of Newport, Maine.

<http://www.davistownmuseum.org/bioVaughn.htm>

100108T1 Wheelwrights' shave

DTM MH

Forged malleable iron and natural steel (?), 13" long, 2 1/2" wide semicircular cutter, signed "J.J.MORRILL".

<http://www.davistownmuseum.org/publications/volume10.html>

Woodworking: Other Tools

33002T3 Bit brace

DTM MH

Malleable steel, brass washer, 11 1/16" long, 11/32" square socket with adjustable screwstop, signed "A. W. Streeter ____ Falls Mass PAT ____ 23, 1855 & March 31, 1857".

DATM (Nelson 1999) indicates Streeter worked in Shelburne Falls, MA, 1855 - 1871.

<http://www.davistownmuseum.org/pics/33002t3.jpg>

41203T3 Center bits (10)

DTM MH

Cast steel, unsigned.

This collection is intriguing because, though coming from the same tool chest, they all have different manufacturer's marks. They are an amazing example of the wide variety of sources for cast steel center bits in the mid-19th century, with a surprising number of Philadelphia makers. Perhaps the tool chest these were found in originated in Philadelphia. Follow the bio link to see a listing of these bits.

http://www.davistownmuseum.org/pics/41203t3_p1.jpg

<http://www.davistownmuseum.org/Inventoryofpictures/WebInfoCenterBits.html>

31212T14 Float cut or wagon-makers' file

DTM TT

Cast steel, 18" long, 1 1/2" wide, unsigned.

Courtesy of Liberty Tool Co.

<http://www.davistownmuseum.org/bioHellerBros.html>

102100T12 Gimlet

DTM MH

Cast steel (?), 5 3/4" long, unsigned.

This is a generic style steel gimlet common in the 19th century.

41203T2 **Lot of hand tools (21)**

DTM MH

Forged and/or drop-forged steel, signed with one of the normal C. Drew signatures on each.

This collection of mid-20th century C. Drew tools indicates that Drew branched out to produce a wide variety of common hand tools ranging from screwdrivers and wrenches to hand chisels. They are more well known for their caulking irons, cat's paws, trunk chisels, and cold chisels. The two chisels, screwdriver, and wrench are the only Drew produced tools of this common type ever seen at Liberty Tool Co. Their production, unlike that of cat's paws, must have been extremely limited. These tools came from a Kingston, MA, workshop just down the street from the old Drew factory location and were all stored together in one metal box. A number of Goldblatt tools and one Osborne brick chuck were also in this hoard.

http://www.davistownmuseum.org/pics/41203t2_p2.jpg

<http://www.davistownmuseum.org/bioDrew.htm>

102100T8 **Nail set**

DTM MH

Cast steel, 3 5/8" long, signed "Tuck & Co".

Tuck manufactured bits, chisels, knives, and screwdrivers in Brockton, MA, 1852 - 1915. What relationship is Tuck & Co. to S. V. Tuck who manufactured edge tools in Bridgewater, MA, c. 1870?

30202T2 **Saw set**

DTM MH

Drop-forged steel with hardened steel jaws, 7 1/2" long, signed "Bemis & Call".

Bemis & Call was opened by Stephen C. Bemis and Amos Call in 1844 in Springfield, MA. They are known for their wide variety of wrenches. They also made calipers, race knives, stilyards, and other tools (Nelson 1999, 78). This saw set has no patent date.

<http://www.davistownmuseum.org/pics/30202t2.jpg>

72801T18 **Saw set**

DTM MH

Cast steel, 5" long, signed "P ? Hopkins".

No P. Hopkins is listed in DATM (Nelson 1999); an unknown 19th century New England toolmaker.

Woodworking: Planes

42602T3 **Beading plane**

DTM TT

Wood with steel blade and boxwood spline, 9 3/8" long, 3/8" wide bead, signed "Cox & Luckman" on plane, blade has an obscured mark "____TH".

This is a typical imported English-made plane of the 19th century.

1302T5 **Beading plane**

DTM MH

Wood with a steel blade, 9 1/2" long, 1/2" wide blade, signed "P M Peckham Fall River".

This is an uncommon mark of a whaling era planemaker who worked from 1850 - 1860.

32802T11 **Bench plane**

DTM TT

Wood and cast steel, 7 3/4" long, 2 9/16" wide, 2" wide cast steel blade, signed on blade "ROBTSORBY", plane unmarked.

This plane is typical of the run of the mill smoothing planes of the mid-19th century; it might be found in any carpenters' tool kit. Robert Sorby is a well known Sheffield toolmaker.

http://www.davistownmuseum.org/pics/32802t11_p1.jpg

http://www.davistownmuseum.org/pics/32802t11_p2.jpg

040103T1 **Block plane**

LPC MH

Cast iron and steel, 5 1/4" wide, 1 3/8" wide blade, signed on blade "Birmingham Conn Plane Mfg. Co.".

The Birmingham Plane Co. made planes from 1855 - 1891. The unique designs of their planes made them among the most distinctive and sought after of the 19th century patented American planemakers. The rapid growth of American steel plane manufacturers after 1850 signaled the (coming) domination of this market by American planemakers after the Civil War.

http://www.davistownmuseum.org/pics/040103t1_p1.jpg

http://www.davistownmuseum.org/pics/040103t1_p2.jpg

31112T1 **Block plane blade**

DTM TT-D28

Forged steel, 6 1/2" long, 2 1/4" wide, signed "SHAW&Co".

DATM (Nelson 1999) lists this signature as a foreign maker of plane irons. Courtesy of Liberty Tool Co.

092409T2 **Carriage-makers' molding plane**

DTM MH

Beech with a steel blade and whale bone bottom, 4" long, 3 3/4" tall, blade is 7 1/4" long and 3/8" wide, unsigned.

It is from a Middlesex county, MA, carriage shop.

<http://www.davistownmuseum.org/pics/092409T2web1.jpg>

<http://www.davistownmuseum.org/pics/092409T2web2.jpg>

Davistown Museum Inventory of Tools - Maritime IV

Woodworking: Planes

Status Location

DTM MH

092409T1 Carriage-makers' router plane

Beech with iron and steel blade, blister steel (?) bottom, 6 1/2" long, 5 3/4" tall, 1 5/8" wide blade, unsigned.
From a Middlesex county, MA, carriage shop.

<http://www.davistownmuseum.org/pics/092409T1web1.jpg>

<http://www.davistownmuseum.org/pics/092409T1web5.jpg>

913108T46 Compass plane

DTM MH

Wood with a cast steel blade, 7 3/8" long, 1 3/6" wide blade, signed "J R TOLMAN HAN MASS" on the wood and "MOULSON BOTHERS" "WARRANTED" "CAST STEEL" and a trademark on the blade.

Joseph Robinson Tolman (b. 1787, d. 1864) started making planes in S. Scituate, MA, in the 1820s and 30s. He was in Boston in 1841 and Hanover, MA, by 1849 (Nelson 1999, 791). The plane blade is English.

101801T3 Complex molding plane

DTM MH

Cast steel, 9 3/4" long, signed "J. T. Jones Philadelphia" with owner signature "AFW".

Pollak (2001) lists J. T. Jones as working in Philadelphia between 1831 and 1846.

<http://www.davistownmuseum.org/publications/volume10.html>

12900T3 Dado plane

DTM MH

Wood (beech) and steel, 9 1/2" long, 1/2" skewed blade, signed "Auburn Tool Co Albany NY" and by owner "J D McLellan".

The Auburn Tool Co. utilized convicts from the NY State Prison to mass produce planes, c. 1864 - 1869.

913108T4 Float

DTM MH

Low carbon steel, brass, and wood, 3 1/4" long blade, 3 5/8" long handle, signed "HWINSUGGLES".

The first four characters of the signature are obscured and appear like "HWIN". This float is used by a planemaker for smoothing at the throat.

72002T9 Gutter plane

DTM MH

Wood with steel blade, 16" long, 2" wide, signed "A CUMINGS BOSTON" with owner signature "F. A. Smith", blade marked "Wights Fre__ Warranted".

DATM (Nelson 1999) lists Allen Cumings as working in Boston from 1848 - 1854. He was one of Boston's more prolific planemakers.

111106T1 Holly plane

DTM MH

Malleable iron, cast steel, and wood, 9 1/4" long, 2 1/8" wide blade, signed on blade "Moulson Bros.".

The plane is unmarked. Nonetheless, it is a Holly's patent plane c. 1852. See Roger Smith (1960, 39) "Patented transitional & metallic planes in America 1827 - 1927" Vol.1.

<http://www.davistownmuseum.org/pics/111106t1.jpg>

101801T4 Molding plane

DTM MH

Cast steel with boxwood spline, 9 3/8" long, signed "Union Factory H. Chapin".

Pollak lists the H. Chapin, Union Factory dates as 1828 - 1860. It was one of the more prolific early factory period manufacturers.

<http://www.davistownmuseum.org/publications/volume10.html>

63001T11 Plane blade

DTM MH

Cast steel, 2 1/2" wide, signed "Baldwin Tool Co made from Butchers CAST STEEL WARRANTED".

DATM (Nelson 1999) indicates Baldwin Tool began business in Middletown, CT, in 1841 (to 1857). This mark on their early plane irons indicates they were still importing quality English cast steel blades in the period before the Civil War. This is another prolific early factory period manufacturer.

51606T13 Plane blade

DTM MH

Cast steel, 8 1/8" long, 2 7/16" wide, signed "T Tillotson Refined Cast Steel" and an elaborate cartouche typical of English edge toolmakers.

This is typical imported English Sheffield steel plane blade by a prominent English maker.

TCD1007 Plow plane

DTM MH

Wood (beech), 8" long, 9 1/4" fence, signed "J. Kellogg", c. 1845.

It was made by J. Kellogg (1835-1867), Amherst, MA. It is a typical example of a factory made plow plane that might have been found in the working carpenters' tool box in Liberty or Montville. This manufacturer's signature is mentioned in Pollak as frequently found (ff - B mark) (2001, 213); Kellogg was one of the most prolific of all planemakers, probably surpassed only by Greenfield Tool Co. in Massachusetts' output of planes.

http://www.davistownmuseum.org/pics/tcd1007_p1.jpg

http://www.davistownmuseum.org/pics/tcd1007_p2.jpg

Davistown Museum Inventory of Tools - Maritime IV

Woodworking: Planes

		Status	Location
72002T10	Rabbet plane	DTM	MH
Wood with steel blade, 19 1/2" long, 7/8" wide, signed "T Swett" and "Wm True", both owner's signatures. This is a nice example of a mid-19th century boatyard tool used for?			
6405T1	Razee plane	DTM	MH
Mahogany, 17 3/4" long, 2 3/16" wide, 5" high, signed "MOULSON BROTHERS WARRANTED CAST STEEL" on blade. This plane was found in the Bath, Maine, area. It is a typical owner-made razee plane of the mid-19th century. http://www.davistownmuseum.org/pics/6405T1_p1.jpg			
42405T1	Razee plane	DTM	MH
Lignum vitae and cast steel, 15 7/8" long, 2 1/8" wide, signed "Buck Bros Warranted Cast Steel" on blade. The handle has been replaced. It is a typical run of the mill Maine owner-made boat shop plane of the mid-19th century.			
101801T5	Remaining planes in Abiel Walker's toolkit	DTM	MH
Cast steel, signed "AFW" on some. Two more Union Factory planes, a quarter round molding plane signed with "AFW", a small sash plane signed with "AFW", and a number of undistinguished later molding planes. http://www.davistownmuseum.org/publications/volume10.html			
04505T8	Shipwrights' plane bodies (2)	DTM	MH
Tropical wood, unsigned. These plane bodies are accompanied by four pieces of wood (see ID 21805T24). http://www.davistownmuseum.org/pics/041505t8_p2.jpg			
110404T1	Smooth plane	LPC	MH
Lignum vitae and cast steel, 9" long, 2 1/2" wide, 2 1/8" high body, 1 7/8" wide blade, signed "E.R.KING" "MAKER" "E. BOSTON" on nose, "CHARLES BUCK" "CAST STEEL" "WARRANTED" on blade, "MOULSON BROTHERS" "M B" "WARRANTED" "STEEL" on curling iron. This tool was found in a Brookline, MA, private collection in late October of 2004. It also has a faint mark on the other end of the plane: "G. L. D." that might be an owner's mark. It appears to be a plane made during the heyday of the east Boston shipyards. Buck Brothers began making plane blades in Worcester, MA, as early as 1856. They moved to Millbury in 1864. The Buck blade suggests the plane was made after 1856, but probably before the Civil War as the 1850s represent the high point of production of the east Boston shipyards. No E.R. King hallmark is listed in either Pollak's 4th edition or DATM (Nelson 1999). The Davistown Museum solicits further information about this East Boston maker. http://www.davistownmuseum.org/pics/110404t1_p6.jpg http://www.davistownmuseum.org/pics/110404t1_p1.jpg			
42405T2	Smooth plane	DTM	MH
Lignum vitae and cast steel, 9 3/4" long, 2 1/8" wide at throat, 5" high, 1 3/4" wide blade, signed "MOULSON BROTHERS WARRANTED CAST STEEL" on blade. This is a typical owner-made boat shop plane of the mid-19th century but with an imported English blade. http://www.davistownmuseum.org/pics/42405T2.jpg			
42904T7	Spar plane	DTM	MH
Wood with cast steel blade, 9 1/2" long, 1 1/2" wide, signed "J. R. TOLMAN" "HANOVER" "MASS" on nose with "W.H. F" owner's mark and "WILLIAM ASH & CO" "WARRANTED" "CAST STEEL" on the blade. Tolman worked from 1830 to 1860 and was known to be very productive in Hanover, MA in the 1840s.			
61204T7	Spar plane	DTM	MH
Wood with cast steel blade, 9 3/8" long, 1 15/16" wide, 1 3/8" wide convex blade, signed "Gladwin & Appleton. Boston" on the plane; "Moulson Brothers Warrented Cast Steel" on the blade with cartouche. This plane is similar in style to Tolman's spar planes and has the usual imported English cast steel blade. http://www.davistownmuseum.org/pics/61204T7.jpg			
91303T5	Spar plane	DTM	MH
Wood with a steel blade, 9 5/8" long, 1 7/8" wide, 1 1/2" wide blade, signed "A Cummings Boston" and "William Ash" on the blade. This nearly unused spar plane has a common Boston makers sign. Allen Cummings is listed as working in Boston from 1848 to 1854 (Nelson 1999, 202). William Ash was a Sheffield, England maker of plane blades.			

Woodworking: Planes Made in Maine

111001T12 Block plane

DTM UNK

Lignum vitae, 9" long, no blade or wedge, signed "J. P. Storer Brunswick".

Storer made planes in Brunswick, Maine, 1854 - 1873 (see the bio link to the Registry of Maine Toolmakers). He frequently used exotic tropical woods for his planes.

<http://www.davistownmuseum.org/publications/volume10.html>

32708T58 Curved beading plane

DTM MH

Cast steel and wood, 9 1/2" long, 2 3/8" wide, 1 1/2" wide blade, signed "L. S. SOULE" "WALDOBORO" "ME." and on the blades "Wm ASH & CO." in an arc with "WARRANTED" "CAST STEEL" below it.

Lewis S. Soule worked in Waldoboro from 1849 - 1854.

<http://www.davistownmuseum.org/pics/32708t58-1.jpg>

<http://www.davistownmuseum.org/publications/volume10.html>

81101T1 Double sash plane

BDTM MH

Wood (beech) and steel blades, 9 1/2" long, 5/8" wide blades, signed on plane "B Morrill Bangor" and blades signed "James Cam".

The Registry of Maine Toolmakers (2008) lists Morrill as working in Bangor as early as 1832. (See the Dec. 4 minutes of the Bangor Mechanic's Association.) Morrill also served in the state legislature. Morrill's planes are considered rare -- this is the only known specimen of a Morrill double sash and its crisp signature and mint condition make it an important artifact from the boomtown years of Bangor. This plane also illustrates the reliance on English cast steel as late as the 1830s.

<http://www.davistownmuseum.org/bio#bioJamesCam.htm>

<http://www.davistownmuseum.org/publications/volume10.html>

032203T11 Molding plane

DTM MH

Wood with steel blade, 9 1/2" long, 1 5/7" wide concave blade, signed "B.MORRILL BANGOR".

Though Morrill manufactured hand planes between 1832 and 1851 in Bangor, his molding planes wouldn't have been unexpected in a c. 1880 carpenters' tool box in Portland.

<http://www.davistownmuseum.org/pics/032203t11.jpg>

<http://www.davistownmuseum.org/publications/volume10.html>

061905T1 Plane

DTM MH

7 3/4" long, 2 1/4" wide at one end tapering to 1 1/2" wide, signed "D. FULLER" and "B" on the end. "A. WALDRON" "B.G. ROBINSON" on the other end. The blade is marked "Hallowhan" SHEFFIELD" and "CAST STEEL".

D. Fuller is a Maine planemaker from Gardiner. The other marks are from owners. The blade is English.

<http://www.davistownmuseum.org/publications/volume10.html>

6405T2 Rabbet plane

DTM MH

Beech with steel blade, 14 1/4" long, 7/8" wide, 5 1/2" high, 1" wide double blades, signed "A. WALDRON" and on label "D. Fuller, Gardiner".

David Fuller, b. 1795, made planes beginning in 1829 and was particularly active in West Gardiner, ME, in the mid-1850s. A. Waldron is an owner's mark and is stamped twice on the top, twice on one end, and once on the other end. This is a typical boat shop rabbet plane by a prolific Maine maker.

<http://www.davistownmuseum.org/pics/6405T2.jpg>

<http://www.davistownmuseum.org/publications/volume10.html>

080704T1 Razee plane

LSS MHC-D

Wood, cast steel blade, 22 1/2" long, 2 1/2" wide, 6" high, signed "C A Spear" on plane with a Masonic symbol, "Moulson Brothers Warranted Cast Steel" on blade.

C. A. Spear was a local planemaker, probably in Warren, ME. This is a generic general purpose ships' joiner fore plane typical of 19th century Maine shipyards. Note the imported English blade. It is on loan to the museum from James Hill.

http://www.davistownmuseum.org/pics/080704t1_p1.jpg

http://www.davistownmuseum.org/pics/080704t1_p2.jpg

6405T4 Rounding plane

DTM MH

9" long, 1 1/4" wide with two 1 1/4" wide convex blades, signed "I. Spear".

Possibly, this plane was made by a member of the Spear family of Thomaston and Warren, Maine. Pollak (2001) lists an M. Spear center bead, c. 1840 - 1850 with a similar wedge profile.

<http://www.davistownmuseum.org/publications/volume10.html>

TBW1005 Spar plane

DTM MH

Wood (beech), 9 7/16" long, 2 1/4" wide, signed "L.S. SOULE WALDOBORO ME." also signed "J.R.B. BULL" in much smaller print. It has no blade and a replaced wedge. Pollack (2001) lists L. S. Soule, born 1813, as working 1849-54 in Waldoboro, ME. We are not sure what the correct name of this plane is. This convex plane also has a chamfer on one side, but it appears to have been used for making spars or rails.

<http://www.davistownmuseum.org/pics/tbw1005.jpg>
<http://www.davistownmuseum.org/pics/tbw1005p2.jpg>

070705T1 Tongue and groove plane

DTM TB

Wood with cast steel blade, 15 3/4" long, 3 1/2" wide, 7" high, 2 1/4" wide blade, signed "LSHOREY" ("WILLIAM ASH & Co" "WARRANTED" and "CAST STEEL" on blade).

This plane was found in a Bath, Maine area Kennebec River boatyard (Leon Robbins Collection). The wedge has been replaced. L. Shorey is not listed in DATM (Nelson 1999).

Woodworking: Saws

4105T2 Backsaw

DTM MH

Shear steel, wood, and brass, 17" long, 12" blade, signed "BARBER & GENN" and "German steel".

A nice example of an English backsaw; the solid brass nut suggests it is mid-19th century. German ironmongers who immigrated to England (Bertram, etc.) perfected the art of making shear steel from bundled blister steel in the late 17th century. All saws and other tools marked German steel in English are made of English shear steel. True German steel is made from firing or decarburizing cast iron and is also known as the "continental" method of making steel (Barraclough 1984).

<http://www.davistownmuseum.org/pics/4105t2.jpg>

913108T45A Backsaw

DTM MH

Malleable iron frame, steel cutting blade, iron ferrule, and rosewood handle, 13 1/2" long, 5" long handle, signed "CH WILLARD" on top of "D (T) BATES".

It is possible these are owner's marks on the saw. DATM (Nelson 1999, 862) lists a C. H. Willard 2nd of Townsend, VT, 1884-1886 as a rake-maker.

913108T34A Backsaw

DTM MH

Cast steel, solid brass ferrule, and wood, 10 1/8" long, signed "BEARDSHAW" "& SON" "CAST STEEL".

This is a company that was located in Sheffield, England.

10700T1 Backsaw

DTM MH

Spring steel, brass, and wood, 15 3/4" long with 12" blade, signed "NOOLE STANIFORTH & CO. SHEFFIELD" and "DOUBLE REFINED SPRING WARRANTED" with the brass signed "H. DISSTON & SONS PHILADA".

English-made spring steel has been processed by Henry Disston & Co. into a saw. The marks on this saw are a puzzle because H. Disston & Sons is a later signature and by this time Disston was producing his own cast and spring steel.

http://www.davistownmuseum.org/pics/10700t1_p2.jpg
<http://www.davistownmuseum.org/bioDisston.htm>

7309T6 Buck saw

DTM MH

Steel, rope, leather, and wood, 46" wide, 35" long blade, unsigned.

This is a finely crafted gentlemen' buck saw of the late 18th century, probably made by a domestic toolmaker as one of a kind.

<http://www.davistownmuseum.org/pics/7309t6BW300ppi-6.jpg>

71908T2 Hand saw

DA MH

Steel, brass, and wood, 10.5" long, 5" wide, signed "Henry Disston & Sons" in a curve, "Cast steel Philad'a Warranted", and faintly "A.J.Wilkinson & Co.".

<http://www.davistownmuseum.org/bio#bioWilkinson.html>
<http://www.davistownmuseum.org/bioDisston.htm>

72801T15 Hand saw

DTM MH

Cast steel and brass, 23 5/8" long, 19 5/8" 8 point (to the inch) blade, signed "F Dowst Boston Warrented Cast Steel".

No Dowst is listed in DATM (Nelson 1999). Was he a Boston hardware dealer who imported English saws and put his own mark on them? The brass medallion is an eagle, marked "Warranted Superior". Is this an unmarked Henry Disston saw?

TJD1003 Keyhole saw

DTM MH

Cast steel and wood, 10 1/2" long, signed "HARVEY W. PEACE BROOKLYN NY" on the saw brass with an arm and a hammer insignia.

DATM (Nelson 1999) lists Peace as being a saw and ice saw-maker c. 1870. Saws with his mark resurface frequently.

Davistown Museum Inventory of Tools - Maritime IV

Woodworking: Saws

Status Location

TCW3000 Pad saw

DTM MH

Steel, brass, and wood, 9 1/4" long including the handle, unsigned.
Is the delicate blade on this pad saw blacksmith-made?

TJD1007 Pad saw

DTM MH

Reforged steel, 8 3/4" long, blade 3 1/2" long, unsigned, c. 1860.
The blade is made from a recycled hack saw blade.

Wrenches

102904T6 Adjustable wrench

DTM MH

Drop-forged iron and steel, 13 1/4" long, 3 3/4" long and 1 1/8" wide jaws, signed "R".

This mid-19th century factory-made wrench is one of the largest and most sculptural of the twisted handled wrenches first made by the Owsley Bros & Marble (Cope 1993, 172, 191), patented in 1883 by Frederick Seymour. Later these Acme style wrenches were made by George Marble himself, 1887-88, Capitol Wrench Co. until 1893, and Whitman & Barnes after 1893. All of these Acme style wrenches, however, were signed by their makers, have clearly serrated adjustable nuts, and are smaller in size than this monster. This wrench has only the one "R" mark and shows more hand-work than the typical factory-made Acme, a not uncommon tool. It suggests a smith-made prototype, which then would have been patented and manufactured in a more sophisticated version by George Marble in Chicago in 1883. Did he find a wrench like this back in New England and bring it west?

<http://www.davistownmuseum.org/pics/102904t6.jpg>

22311T8 Carriage spoke wrench

DTM TT

Drop-forged malleable iron with a wooden handle, 5 1/2" long, signed "FORGED" "PORTLAND ME.". The trademark is obscured. Part of the Robert Sullivan Collection donation.

11301T12 Monkey wrench

BDTM MH

Cut steel and wood, 4 5/8" long, signed "L Coes & Co Pat Mar 29 1868".

Loring and his brother Aury Gates Coes had been in the wool machine business until 1839. This is the highly sought-after smallest size of the many Coes wrenches.

<http://www.davistownmuseum.org/pics/11301t12.jpg>

<http://www.davistownmuseum.org/bioCoes.htm>

41203T2H Open ended wrench

DTM MH

Forged steel, 3/4", signed "<-- 3/4 C. Drew & Co. 3/4 -->".

<http://www.davistownmuseum.org/bioDrew.htm>

52603T16 Open ended wrench

DTM MH

Iron, 6 10/16" long, signed "YORK Co.".

TCZ1008 Open ended wrench

DTM MH

Forged iron, 7 1/2" long, 5/8" and 3/4" ends, signed "YORK M. Co", c. 1850 - 1860.

This maker is not listed in DATM (Nelson 1999).

TCZ1006A Open ended wrenches (8)

DTM MH

Forged or reforged iron, signed "W. C. HASLAM" on two of them, 1840 - 1875.

Eight open ended wrenches typical of mid-19th century mills and workshops.

<http://www.davistownmuseum.org/pics/tcz1006a.jpg>

31811T8 Tap wrench

DTM TT

Forged steel or malleable iron, 6" long, 5/16" wide, the center is flattened to 1" x 1" with a 1/4" square hole, unsigned.

It was hand-forged.

31811T32 Tap wrench

DTM TT

Forged malleable iron, 19 1/4" long, 1/2" square hole in the center, unsigned.

This handmade tool could be a bolt header, but more likely was used as a wrench.

090109T7 Wrench

DTM MH

Cast steel and wood, 11 3/4" long closed, 2 3/8" wide head, unsigned.

Davistown Museum Inventory of Tools - Maritime IV

Wrenches
Status Location
DTM MH

31501T2 **Wrench**

Drop-forged steel, 14" long, signed "E RIPLEY'S PATENT APRIL 7, 1857".

DATM (Nelson 1999) lists E. Ripley as working from prior to 1857 to 1865, location unknown. This may be the only known specimen of this wrench. Ripley's patent may be seen here:

<http://www.google.com/patents/US16997?printsec=drawing&dq=apr+7+1857+ripley&ei=JY50T46vF6OI0AWHu7n6Dw#v=onepage&q=apr%207%201857%20ripley&f=false>