

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

Forged iron, 10 3/4" long, 4 1/2" wide when open, 2" wide cutting edge, unsigned.

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

Steel, 5" long, signed "No 30" on each one.

43805T1 **Pig skinner** DTM

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>

TCK1005 **Pruning shears** DTM

Forged or cast 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.

32802T6 **Pruning shears** DTM

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

This distinctly hand forged tool appears to be made entirely of forged or cast steel. It is representative of the transition from hand forged items to the factory produced ones. A donation from Chris Harvey.

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

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

090508T1A **Sod cutter** DTM

Metal and wood, 81" long, 7" long blade, unsigned.

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

Axes

914108T10 **Ax** DTM

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.

Davistown Museum Inventory of Tools - Maritime IV

Axes

Status Location

41203T13 **Broad ax**

DTM

Forged iron and weld steel, 9" wide blade, signed with the distinctive touchmark of J Fowler of St. Johns, New Brunswick. 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

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>

42710T1 **Broad ax**

DTM MH

Forge-welded 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>

41907T3 **Broad ax**

DTM

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>

72801T3 **Double bitted ax**

DTM

Cast steel and wood, 8 3/4" long blade, 3 3/4" wide, 31 1/2" handle, obscure signature only "Oakland" is visible along with "S.S." who might be the owner..

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

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

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.

914108T15 **Hatchet**

DTM

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.

100208T2 **Hewing ax**

DTM

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>

Davistown Museum Inventory of Tools - Maritime IV

Axes

Status Location

91303T20 **Hewing ax**

DTM

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>

42604T5 **Hewing ax**

DTM

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>

040904T4 **Ice ax**

DTM

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. Dernell (H. F. Dernell & 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. Dernell & Co. in Athens with working dates from 1854-1917.

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

41203T8 **Lathing hatchet**

DTM

Cast steel, 6 7/8" long, 2 1/8" wide cutting blade, 12" long wooden handle, signed "US PAT OFFICE UNDERHILL BOSTON TRADEMARK".

A typical cast steel tool from the prolific Underhills, who are recorded making edge tools in Boston as early as 1829. DATM (Nelson 1999) 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 (pg. 803-805).

http://www.davistownmuseum.org/pics/41203t8_p4.jpg

http://www.davistownmuseum.org/pics/41203t8_p1.jpg

091909T1 **Mast ax**

DTM

Steel and wood, 27" long, 11 1/2" wide, 6" cutting edge, signed "UNDERHILL", "EDGE TOOL CO.", "WARRANTED", and "CAST STEEL".

Acquired from a 19th century Deer Isle, ME, boat shop.

<http://www.davistownmuseum.org/pics/091909t1web2.jpg>

<http://www.davistownmuseum.org/pics/091909t1web1.jpg>

Blacksmith and Farriers' Tools

102904T17 **Blacksmith punch**

DTM

Forged iron, 12" long, unsigned.

A nicely fashioned smith-made special purpose punch, possibly for sheet metal work.

<http://www.davistownmuseum.org/pics/102904t17.jpg>

42405T3 **Blacksmiths' double calipers**

DTM

Forged steel or iron, 16 1/8" long, 6 5/8" wide when closed, signed with the owner's initials "HJK".

A typical smith-made pair of calipers for shop use; probably one of a kind.

041709T1 **Chasing tools (11)**

DTM MH

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.

102904T8 **Farriers' slick**

DTM

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>

51606T12 Farriers' slick

DTM

Steel, iron, and wood, 11 3/4" long, 5 1/2" wide double-edged blade, unsigned.

A transitional tool showing evidence of handwork (hand-filed surfaces, puzzling 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.

Boring Tools

111002T1 Auger

DTM

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>

TCE3001 Auger

DTM

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.

101008T1 Rafting auger

DTM

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 hang-forging noticeable, especially in the application of the handle. There is no spiral tip on the end.

Cast Iron Tools and Artifacts

111001T32 Awl

DTM

Cast iron, 7" long, unsigned.

Another tool from the age of cast iron (1840 - 1865).

TCR1018 Block

DTM

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

Cast iron, 6 3/4" long, 3 1/2" throat, marked "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

Cast iron, 6 1/2" long, 5 1/2" wide, unsigned.

TTCR1001 Doorknob patterns

DTM

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 solicited.

111001T30 Harnessmakers' vise

DTM

Cast iron, 5 1/2" wide, 3 1/2" wide jaw, unsigned.

A common 19th century tool; in the 21st century, just another whatsit?

111001T33 Insignia

DTM

Cast iron, 5 1/4" diameter, marked with a 4" high "1".

Another artifact from the age of cast iron. What was its use?

Ceramics

30106T1 Earthen redware pot

MH

Redware, 5 1/2" diameter top, 3 1/4" diameter bottom, 5" high, unsigned.

Incised one inch band with black stain at top, brown drip glaze interior.

Cobblers' Tools

Davistown Museum Inventory of Tools - Maritime IV

Cobblers' Tools
Status Location
DTM

33002T8 Cobblers' clamp

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>

52603T9 Cobblers' sling cutter

5" long, unsigned.

913108T9 Hammer

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.

61204T9 Leather slitter

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>

30202T1 Shoemakers' lasting pliers

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>

Coopers' Tools

7602T3 adz

Cast steel with wood handle, 9" long, 3" wide blade, 10" long handle, obscure signature "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.

41203T6 Chamfer knife

Cast steel and 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

Cast 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, 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>

11301T5 Coopers' broad ax

Cast steel and 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 is a B R Beardsley making axes and edge tools in Elmira, NY, ca. 1859.

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. By 1880 the twilight of the era of the cooper had arrived. However, even as late as 1880, 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.

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

Davistown Museum Inventory of Tools - Maritime IV

Coopers' Tools
Status Location
DTM

121805T17 **Coopers' bung**

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

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>

81801T13 **Coopers' hammer**

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 in 30 years.

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

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

42801T7 **Coopers' howell**

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

30301T1 **Coopers' stove**

aprox. 38" high, 16" diameter, .

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. On display at the Davistown Museum Liberty Tool Annex.

31808PC10 **Croze**

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**

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**

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>

51201T3 **Hoop driver**

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. An excellent example of a coopers' hoop driver or bung with a provenance from a New Bedford cooperage, ca. 1860.

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

100605T2 **Hoop driver**

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".

An undistinguished example of a hoop driver with a previously unrecorded maker's sign. This tool was found in a barn in Washington, Maine.

31808SLP29 **Shave**

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>

Domestic Utensils

112303P1 **Apple corer (?)**

Wood, 10 1/4" high, 10 1/2" wide, 7" by 2 1/4" footing, mounted on 15" by 8" base, unsigned.

A typical homemade primitive of the 19th century. Was this used as an apple corer or a yarn winder?

92001T7 **Milk bowl**

redware, unsigned.

Made by John Corliss's pottery at Days Ferry, ME, just across the Kennebec River from Bath.

Davistown Museum Inventory of Tools - Maritime IV

Domestic Utensils

Status Location

DTM

121805T4 Scissors

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

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

41801T6 Shears

DTM

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

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.

Drew Lot

41203T2 Lot of hand tools (21)

DTM

Forged and/or drop forged steel, all signed.

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>

41203T2G Brick chisel

DTM

Forged steel, 6 7/8" long, 2 7/8" wide, signed "C. Drew & Co.".

41203T2F Cat's paw

DTM

Forged steel, 10 1/2" long, signed "C. Drew CAT'S PAW - 277".

41203T2J Cold chisels and punches (12)

DTM

Forged steel, from 4 1/2" to 8 1/4" long, signed "C. Drew & Co.".

http://www.davistownmuseum.org/pics/41203t2_p4.jpg

41203T2D Machinists' pry bar

DTM

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

41203T2H Open ended wrench

DTM

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

41203T2A Pry bar

DTM

Forged steel, 15 1/4" long, signed "C. Drew and Company".

41203T2I Screwdriver

DTM

Forged steel, 9" long, signed "C. Drew & Co.".

41203T2B Small wrecking bar

DTM

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

41203T2C Wood chisels (2)

DTM

Forged steel, 1/2" wide and 1 1/2" wide, signed "C. Drew & Co.".

These have a yellow plastic handle ca. 1960.

Edge Tools - American Made Cast Steel

33011T2 Adz

DTM

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>

Davistown Museum Inventory of Tools - Maritime IV

Edge Tools - American Made Cast Steel

Status Location

40107T2 **Block adz**

DTM

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>

31908T30 **Carving chisel**

DTM

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

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

62207T1 **Chisel**

DTM

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

31808SLP30 **Chisel**

DTM

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

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

52403T3 **Clapboard slick**

LPC

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 not yet available.

http://www.davistownmuseum.org/pics/52403t3_p3.jpg

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

21201T3 **Clapboard slick**

DTM

Weld steel, 29 3/4" long including a 7" handle, 2 3/16" wide blade, signed "_UGHAN & PARDO_ UNION WARRANTEED".

This is Vaughan & Pardoe of Union, Maine. Working dates for this company are 1844-1868. 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>

062603T2 **Clapboard slick**

DTM

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>

72801T5 **Complex spokeshave**

DTM

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?

22311T15 **Drawknife**

DTM

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, and from around 1856. Part of the Robert Sullivan Collection donation.

30801T2 Drawknife

DTM

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, ca. 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>

31811T1 Drawknife

DTM

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>

63001T7 Drawknife

DTM

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

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

An excellent example of one of America's most famous manufacturers of edge tools. TH Witherby's working dates begin in 1849. TH Witherby later became Witherby Tool Co. and then Winsted Edge Tool Works. DATM (Nelson 1999, 873).

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

71401T3 Drawknife

DTM

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

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

071704T5 Drawknife

DTM

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

Almost certainly 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>

913108T26 Drawknife

DTM

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.

31908T26 Drawshave

DTM

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

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>

31808PC15 Drawshave

DTM

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

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

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

		Status	Location
42405T6	Drawshave		DTM
<p>Cast steel, iron ferrules, wood handles, 14 3/8" long, 8 1/2" cutting edge, signed "M & AM DARLING CAST STEEL WARRANTED". A previously unrecorded maker's mark, almost certainly American. Any relationship to Samuel Darling of Darling, Brown & Sharpe or another New England Darling toolmakers?</p>			
52403T4	Folding drawknife		DTM
<p>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".</p> <p>DATM (Nelson 1999) lists Wilkinson with the working dates of 1842 - 1893.</p> <p>http://www.davistownmuseum.org/pics/52403t4_p4.jpg http://www.davistownmuseum.org/pics/52403t4_p3.jpg</p>			
42604T8	Framing chisel		DTM
<p>Weld cast steel, 11 3/4" long, 2" wide, signed "T. H. WITHERBY" "WARRANTED".</p> <p>This tool has an obvious weld.</p> <p>http://www.davistownmuseum.org/bioWitherby.html</p>			
913108T42	Framing chisel		DTM
<p>Cast steel, 11 1/2" long, 7 1/2" long blade, signed "F. DICKINSON" "CAST STEEL" and "WARRANTED".</p> <p>This was made by chisel-maker Friend Dickinson, Higganum, Connecticut who started working in 1849 (Nelson 1999).</p> <p>http://www.davistownmuseum.org/pics/913108t42_p2.jpg</p>			
032203T13	Framing chisel		DTM
<p>Cast steel with a wood handle, 12 1/2" long including a 4" handle, signed "BUCK BROS" "CAST STEEL" with a bucks head touchmark.</p> <p>A socket chisel.</p> <p>http://www.davistownmuseum.org/pics/032203t10_p1.jpg http://www.davistownmuseum.org/bioBuckBrothers.html</p>			
032203T10	Framing chisel		DTM
<p>Cast steel, 16" long including a 4 3/8" handle, signed "TH WITHERBY" "Warranted".</p> <p>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.</p> <p>http://www.davistownmuseum.org/pics/032203t13_p3.jpg http://www.davistownmuseum.org/bioWitherby.html</p>			
14302T15	Gouge		DTM
<p>Cast steel, brass and wood, 9 1/2" long, 4 1/2" long handle, signed "IH" and "J. Harrison Warranted".</p> <p>DATM (Nelson 1999) reports an I Harrison bill hook but J. Harrison may be a Sheffield, England manufacturer?</p>			
31501T5	Gouge		DTM
<p>Forged iron and weld steel, 9 1/16" long, 1 1/8" wide blade, signed "VAUGHN" "TO__ & Co" "WARRANTED WARRANTED".</p> <p>No Vaughn To... Co. is listed in DATM (Nelson 1999). More information is wanted about this maker's sign. Could this be Vaughn & Pardoe?</p> <p>http://www.davistownmuseum.org/bioVaughn.htm</p>			
71401T21	Gouge		DTM
<p>Cast steel, 8 1/2" long, 3 1/2" handle, signed "Schroder & Arete".</p> <p>An unusual signature of an as yet unidentified European (?) manufacturer.</p>			
112303T2	Gouge		DTM
<p>Cast steel, 13 7/8" long, 3 1/8" wide, signed "UNDERHILL" "CAST STEEL" then upsided down "BOSTON" also "TH" made with small dots.</p> <p>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.</p> <p>http://www.davistownmuseum.org/pics/112303t2_p1.jpg http://www.davistownmuseum.org/pics/112303t2_p4.jpg</p>			

		Status	Location
81101T9	Gouge		DTM
<p>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".</p> <p>DATM (Nelson 1999) lists Sheffield as 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.</p> <p>http://www.davistownmuseum.org/pics/81101T9_p1.jpg http://www.davistownmuseum.org/pics/81101T9_p2.jpg</p>			
111001T3	Gouge		DTM
<p>Cast steel and wood, 14" long with 4 1/2" handle, 1 1/4" wide cutting edge, signed "Vaughan Pardoe & Co Warranted Union". Working dates for this company are 1844-1868.</p> <p>http://www.davistownmuseum.org/pics/111001t3_p2.jpg http://www.davistownmuseum.org/bioVaughn.htm</p>			
61204T2	Gutter adz		DTM
<p>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".</p> <p>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.</p> <p>http://www.davistownmuseum.org/pics/61204t2_p12.jpg http://www.davistownmuseum.org/bioVaughn.htm</p>			
090105T1	Gutter adz	DTM	TB
<p>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 mark "J.B.L".</p> <p>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. A rare mark.</p> <p>http://www.davistownmuseum.org/pics/090105t1_p2.jpg http://www.davistownmuseum.org/publications/volume10.html</p>			
51100T11	Hatchet		DTM
<p>Cast steel and wood, 6" long, 3 3/4" blade, signed "BLODGETT EDGE TOOL MFG." and with "2".</p> <p>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.</p>			
111900T2	Hatchet		DTM
<p>Steel and wood, 9 1/2" long, 1 1/4" wide blade, unsigned.</p> <p>A miniature hatchet of unknown use. One of two in the Museum exhibits.</p>			
22411T27	Hatchet head		DTM
<p>Cast steel, 5" long, 3" wide, signed "__NDLEY MORSE" "WARRANTED" "CAST STEEL".</p> <p>This hatchet has a claw design. DATM (Nelson 1999, 484) lists Lindley & Morse making adzes, axes, and hatches in Douglas, MA in 1855.</p>			
032203T14	Mast shave		DTM
<p>Cast steel, 20" wide, 10" blade, signed "L. & I.J WHITE BUFFALO" "10".</p> <p>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 ca. 1880 tool kit. Another of the high quality American-made tools signaling the florescence of the domestic tool manufacturing industry in the late 19th century.</p> <p>http://www.davistownmuseum.org/pics/032203t14_p2.jpg</p>			
070705T3	Mast shave (?)	DTM	TB
<p>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".</p> <p>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.</p>			
31602T9	Mortising chisel		DTM
<p>Wood, steel, and brass ferrule, 10 3/8" long, 5/16" wide blade, signed "T. SHAW".</p> <p>Goodman's "British planemakers" 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.</p>			

		Status	Location
42904T6	Mortising chisel		DTM
<p>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.</p> <p>An excellent example of the rise of American toolmakers. The hegemony of American timber framing and other heavy duty edge tools is now underway.</p>			
40107T1	Mortising chisel		DTM
<p>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. Probably 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.</p> <p>http://www.davistownmuseum.org/pics/40107t1_pic1.jpg http://www.davistownmuseum.org/pics/40107t1_sig.jpg</p>			
51100T10	Mortising chisel		DTM
<p>Cast steel, 11 1/4" long, 11/16" wide, signed "UNDERHILL & LEIGHTON MANCHESTER CAST STEEL" with a owner's signature of "J.W. Benway".</p> <p>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 ca. 1852. They were makers of chisels and edge tools. Underhill is the most prolific of all 19th century American edge tool makers; this is a very rare mark. Hazen is only one of many toolmakers in the Underhill clan.</p> <p>http://www.davistownmuseum.org/pics/51100t10.jpg http://www.davistownmuseum.org/pics/51100t10_sig.jpg</p>			
31908T16	Mortising gouge		DTM
<p>Steel and wood, 17 5/8" long, 8" long blade, signed "VAUGHAN" " & PARDOE" "UNION" and "WARRANTED".</p> <p>http://www.davistownmuseum.org/pics/31908t16p1.jpg http://www.davistownmuseum.org/bioVaughn.htm</p>			
12900T2	Peen adz		DTM
<p>Cast steel, signed "J. Gray Kingston".</p> <p>DATM (Nelson 1999) lists John Gray as an edge tool maker, Kingston, MA, ca. 1849. What was his association with his famous neighbor, Christopher Drew?</p>			
72801T4	Peen adz		DTM
<p>Cast steel and wood, 10 1/2" long, 4 1/4" wide blade, 31 1/4" handle, signed "Boston Arnold".</p> <p>No Arnold of Boston is listed in DATM (Nelson 1999). Who was this manufacturer of edge tools?</p> <p>http://www.davistownmuseum.org/pics/72801t4.jpg</p>			
71401T9	Scraper		DTM
<p>Cast steel, iron and wood, signed "L M Hildreth New Haven CONN PAT Applied For".</p> <p>Hildreth is not listed in DATM (Nelson 1999).</p>			
102804T2	Slick		LPC
<p>Cast steel(?) and wood, signed "P. MERRILL & CO.". </p> <p>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.</p>			
030505T1	Slick		DTM
<p>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".</p> <p>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.</p> <p>http://www.davistownmuseum.org/pics/030505t1_p1.jpg</p>			
63001T4	Socket chisel		DTM
<p>Cast steel, 11 3/8" long, 19/16" wide, signed "T H Witherby Warranted".</p> <p>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., ca. 1868 and around 1890 the Winsted Edge Tool Works. (DATM, 1999, pg. 871 - 873).</p> <p>http://www.davistownmuseum.org/bioWitherby.html</p>			

<p>TCC2007 Socket chisel</p> <p>Cast steel, 10 5/8" long without handle, 7/16" wide, signed "Buck Brothers, Millbury, MA", c. 1853. The touch mark 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 which had evolved by the middle of the 19th century.</p> <p>http://www.davistownmuseum.org/bioBuckBrothers.html</p>	<p>DTM</p>
<p>81101T13 Socket chisel</p> <p>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. Another early example of the florescence of cast steel production in New England.</p>	<p>DTM</p>
<p>42604T2 Socket chisel</p> <p>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. Made in Portland, Maine, probably in the late 1850s.</p> <p>http://www.davistownmuseum.org/pics/42604t2_p5.jpg http://www.davistownmuseum.org/publications/volume10.html</p>	<p>DTM</p>
<p>41801T7 Socket chisel</p> <p>Cast steel with wood handle, 12" long, 5" wood handle, signed "VAUGHAN & PARDOE UNION WARRANTED". Working dates for this company are 1844-1868. A gift to The Davistown Museum from Rick Floyd of Newport, Maine.</p> <p>http://www.davistownmuseum.org/bioVaughn.htm</p>	<p>DTM</p>
<p>4106T7 Socket gouge</p> <p>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.</p> <p>http://www.davistownmuseum.org/pics/4106t7_p3.jpg http://www.davistownmuseum.org/bioBarton.html</p>	<p>DTM</p>
<p>71401T17 Spokeshave</p> <p>Cast iron, steel and brass, 10 1/4" long, 2 1/4" wide blade, The brass nut holding the blade is signed "Bailey's Pat. July 13 58". An excellent example of Leonard Bailey's tools before he joined in partnership with Augustus Stanley to form the Stanley Tool Co. See Roger Smith's "Patented Transitional and Metallic Planes" Vol. I pg. 41 - 58 and Vol. II pg. 21 - 38.</p> <p>http://www.davistownmuseum.org/pics/71401t17.jpg</p>	<p>BDTM</p>
<p>TCC2009 Tang chisel</p> <p>Cast steel, 5" long, 7/8" wide, signed "Buck Brothers Made of American Steel". Another unusual Buck Brothers' touch mark.</p> <p>http://www.davistownmuseum.org/bioBuckBrothers.html</p>	<p>DTM</p>
<p>31908T19 Tapping chisel</p> <p>German steel and wood, 16 1/2" long, 8 1/2" long blade, 1 1/2" wide, signed "GI. MIX & Co" "YALE" and "EX". This might be Mix & Co., a chisel and drawknife maker in Cheshire, Connecticut.</p> <p>http://www.davistownmuseum.org/pics/31908t19.jpg http://www.davistownmuseum.org/pics/31908t19-2.jpg</p>	<p>DTM</p>
<p>31908T20 Timber framing chisel</p> <p>Cast steel and wood, 16 1/2" long with an 8" long blade, 2" wide, signed "CAST STEEL" and a partially obscured "BL_". Signature is possibly Buck Brothers.</p> <p>http://www.davistownmuseum.org/pics/31908t20.jpg http://www.davistownmuseum.org/pics/31908t20-3.jpg</p>	<p>DTM</p>
<p>032707T1 Timber framing chisel</p> <p>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.</p> <p>http://www.davistownmuseum.org/pics/032707t1_p1.jpg http://www.davistownmuseum.org/pics/032707t1_p2.jpg</p>	<p>DTM</p>

		Status	Location
31908T22	Timber framing chisel	DTM	
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.			
42405T5	Wood chisel	DTM	
Cast steel, wood handle, 13 1/4" long including a 7 3/8" long handle, 1 1/2" wide, signed "Thamesville Co. Cast Steel". 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.			

Edge Tools - Forged

31908PC4	Adz	DTM	
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	
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			
913108T46A	Chisel	DTM	
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			
72801T9	Chisel	DTM	
Forged iron and steel, signed "Trafton Brothers" with other obscured markings. DATM (Nelson 1999) reports the Trafton Brothers as Portsmouth, NH area blacksmiths working ca. 1860.			
914108T12	Cold chisel	DTM	
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.			
071704T4	Draw knife	DTM	
Welded steel and iron, wood handles, 13" long, 6 1/2" long blade, signed "George", c. 1850. This draw knife was made by Currier George, Danville, NH.			
100605T4	Drawknife	DTM	TB
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			
62504T1	Drawknife	DTM	
Weld steel, iron, wood, 15 3/4" long, 10 1/4" blade, signed "G.B. RICKER" "CHERRYFIELD". 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			
121805T1	Drawshave	DTM	
Steel, wood handles, brass ferrules, 12" wide, 7 3/16" long cutting blade, signed "G. BARNAR__". This is probably G Barnard of Watertown, NY (see DATM, 1999, pg. 58). http://www.davistownmuseum.org/pics/121805T1_p2.jpg			

Davistown Museum Inventory of Tools - Maritime IV

Edge Tools - Forged

Status Location

051310T1 **Drawshave**

DTM

Forge-welded 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).

52907T4 **Framing chisel (socket type)**

DTM

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

32103T1 **Froe**

DTM

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. 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

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. This 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 reforging 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>

913108T44 **Gouge**

DTM

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>

42607T4 **Gouge**

DTM

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.

TCC3003 **Hatchet**

DTM

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 lists the Underhill Edge Tool Co. as Boston ca. 1870-1871, however, the Underhill clan of edge tool makers began production by 1813 or earlier (DATM lists 24 separate Underhill names 1813-1890), with tool production beginning in Boston ca. 1825. Much of the Underhill activity was centered around Nashua, NH.

120907T4 **Mast shave**

DTM

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.

This mast shave shows a very obvious weld line running parallel to the blade on its back side.

Davistown Museum Inventory of Tools - Maritime IV

Edge Tools - Forged

Status Location

DTM

041505T24 **Mortising chisel**

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>

10606T1 **Peen adz**

DTM

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>

62202T3 **Slick**

DTM

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

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?.

Early lead inlaid handle. The only Mellor in DATM is from Sedalia, MO.

Edge Tools - Imported English Cast Steel

31908T25 **Carving tool**

DTM

Cast steel and wood, 2 5/8" long curved blade, signed "HERRING BROS" and "LONDON".

041505T2 **Caulking iron**

DTM

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

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.

No handle.

121805T14 **Chisel**

DTM

Cast steel and wood, 9" long including 3 3/8" tanged chisel, signed "IBBOTSON SHEFFIELD PAT CHRYSTALIZED CAST STEEL". An anomalous mark by a prolific maker. The significance of chrystalized is yet to be explained.

http://www.davistownmuseum.org/pics/121805t14_p2.jpg

091309T1 Chisel

DTM

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).

31908T23 Chisel

DTM

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>

102904T14 Framing chisel

DTM

Forged iron and weld steel, 11 5/8" long, 2" wide, signed "W. BROOKES & SONS".

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

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>

51703T2 Tanged firmed chisel

DTM

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 tool makers and their tools were imported to the colonies and the republic until the late 19th century.

Files

913108T24 File

DTM

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.

121805T25 File

DTM

German 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 steel.

<http://www.davistownmuseum.org/pics/121805t25.jpg>

121805T21 Rasp

DTM

Cast steel, 12 1/4" long, 1 5/16" wide, signed "Grover & Son" with a touchmark, c. 1850.

A typical Sheffield, England, cast steel hand made rasp or shaver. Each notch was cut by an English file maker by hand.

<http://www.davistownmuseum.org/pics/121805t21.jpg>

Fishing Implements

112704T2 Frost fish spear

DTM

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 shore that, 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.

Davistown Museum Inventory of Tools - Maritime IV

Fishing Implements

Status Location

112704T3 Frost fish spear

DTM

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 description under tool #112704T2.

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

52602T18 Ball peen hammer

DTM

10 1/4" long, 3 1/2" head, unsigned.

TTCR1002 Ball peen hammer patterns (2)

DTM

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

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 solicited.

33002T16 Claw hammer

DTM

Forged iron (?), 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>

913108T10 Granite hammer

DTM

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.

32802T14 Gristmill stone hammer?

DTM

Cast 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>

041505T12 Hammer

DTM

Forged steel and 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 handfiled 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>

121805T13 Hammer

DTM

Blister or puddled 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. The manufacturer's identification is pending - A Rick Floyd ID.

http://www.davistownmuseum.org/pics/121805t13_p2.jpg

041505T17 Hammer

DTM

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>

041505T14 Sledge hammer

DTM

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>

913108T16 Sledge hammer

DTM

Drop-forged medium carbon steel, wood, 5 1/6" long with a 3 1/2" long handle, 3" wide and 1 1/2" long head, unsigned.

This could have been made in the later 19th century.

Davistown Museum Inventory of Tools - Maritime IV

Hammers
Status Location
DTM

TCM1006 Stone hammer

Forged or cast iron with wood handle, 10" long, head 2 1/2" long and 1/2" wide, touchmark "AHEW"? (in a triangle). The handle has a twist design at the grip.

090109T6 Tack hammer

Cast steel and wood, 3 1/2" long, 9/16" wide head, 6 1/2" long wooden handle, signed "E.LIBBY".

TML1003 Tack hammer

Cast and/or 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

Cast steel, 4 1/2" long, signed "C. DREW & CO".

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

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

TCM1002 Tack hammer?

Cast iron or drop forged iron?, 13 3/4" long, 2 5/8" long head, 5/8" diameter face, unsigned.
Probably used in the carriage making trade.

Knives

71401T19 Banana knife

Steel, wood and brass, 10" long, 3 1/8" wood handle, unsigned.

An example of a now forgotten tool: the banana knife. Another tool examination submittal.

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 welding 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 1840's.

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".

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

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

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.

Loggers' 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

Loggers' Tools
Status Location
DTM

4105T6 Peavey

Iron, 9 1/4" long, unsigned.

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

913108T13A Peavey or cant dog spike

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

913108T12 Spike

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

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.

51100T6 Adjustable calipers

Cast 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>

121805T5 Calipers

Cast steel, 12 1/2" long, signed "H. O. Perry" and "H.O.P.", c. 1850.

No H. O. 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

Cast iron and 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 tool makers.

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

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

TCP1004A Dividers

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

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

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

TCP1005A Dividers

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

Maker not listed in DATM. 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>

Davistown Museum Inventory of Tools - Maritime IV

Machinists' Tools

Status Location

090508T3 Framing square

DTM

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).

50402T6 Height gauge

DTM

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 - 1880).

33002T6 Knurling tool

DTM

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

Typical of the shop produced machinists' hand tools of the pre-massproduction era.

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

TCP1001 Level

DTM

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

Steel, 9" long, 13/16" wide, unsigned.

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

040103T5 Marking gauge

DTM

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

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>

TCP1004B Set of boxed precision ground bearings

DTM

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

The sizes are all hand stamped.

51100T7 Vernier calipers

DTM

Cast 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

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. DATM (Nelson 1999, 120).

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

Maine Made Tools

Davistown Museum Inventory of Tools - Maritime IV

Maine Made Tools

Status Location

DTM

121906T2 **Adz**

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>

31908T33 **Drawshave**

DTM

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>

91501T1 **Framing chisel**

DTM

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>

51606T1 **Framing chisel**

DTM

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>

TBC1002 **Gouge**

DTM

Forged iron and steel, 1 3/4" diameter, 13 3/4" long, with 6" handle and hand forged ferrule, signed "HIGGINS & LIBBY".

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>

121805T27 **Mast ax**

DTM

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>

100208T4 **Mast ax**

DTM

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. Formerly in the collection of Liberty Tool Co.

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

020807T1 Peen adz

DTM

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, ca. 1855.

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

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

040904T1 Slick

DTM

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>

100108T1 Wheelwrights' shave

DTM

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>

Measuring Tools (Except Machinist Tools)

11301T9 Adjustable calipers

DTM

Cast 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

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 ca. 1850. 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

Cast iron with brass rivet, 13 1/2" long, unsigned.

82709T1 Cordage rule

DTM

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.".

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.

<http://www.davistownmuseum.org/pics/82709t1-2.jpg>

<http://www.davistownmuseum.org/pics/82709t1-1.jpg>

42602T2 Cordage rule

DTM

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

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 "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

Davistown Museum Inventory of Tools - Maritime IV

Measuring Tools (Except Machinist Tools)

	Status	Location
42801T6 Dividers		DTM
<p>Cast steel, signed "S H F Bingham Cast Steel". No SHF Bingham is listed in DATM (Nelson 1999) or in Cope's American Machinists' Tools; probably a heretofore unrecorded American toolmaker. Was there an English manufacturer with this name?</p>		
041505T37 Double calipers		DTM
<p>Steel, signed "PAT APL'D FOR" "J.P. BARNES". No J. P. Barnes is listed in DATM (Nelson 1999). http://www.davistownmuseum.org/pics/041505t37_p2.jpg</p>		
TCP1002A Folding rule		BDTM
<p>Wood and brass, 12" long, signed "J. WATTS BOSTON". DATM (Nelson 1999) lists a Joseph Watts as a manufacturer of rules, bevels, gauges, scales, dress squares, and log calipers, ca. 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, 'American Marking Gages' for an extensive write up on the Watts family." http://www.davistownmuseum.org/pics/tcp1002A_p2.jpg</p>		
63001T3 Framing square		DTM
<p>Cast steel, 12" x 24", signed "J. Essex CAST STEEL WARRANTED No 1". DATM (Nelson 1999) lists Jeremiah Essex as making squares in Bennington, Vermont, 1830 - 59 before merging with the Eagle SQ 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. http://www.davistownmuseum.org/bioEagleSq.htm</p>		
TCQ3500 Framing square		DTM
<p>Cast steel, signed "H A WEST PATENTED WARRANTED ___?___ STEEL" AND "B HARMON". The DATM 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, ca. 1850. Under the heading Harmon and Fay, DATM also notes that Bronson Harmon made squares in N. Bennington, Vt, ca. 1848 (pg. 134).</p>		
TJG1002A Level		DTM
<p>Brass and cast iron, 7 3/4" long, 7/8" wide, marked "1862". Who made this level? Probably a user made or at least a locally produced tool.</p>		
102503T3 Line level		LPC
<p>Steel, signed "H. B. BROWN". 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 ca. 1850 tool chest in southern New Hampshire.</p>		
TCP1003A Plumb bob		DTM
<p>Cast iron, 3 3/4" long, 2 1/4" wide, unsigned.</p>		
TCQ1003 Plumb bob		DTM
<p>Cast iron, 3 5/8" long, 2 1/8" wide, unsigned. A generic mid-19th century plumb bob.</p>		
041505T36 Rule		DTM
<p>Steel, 6" long, signed "D. & S." "BANGOR Me." "U. S. Std." 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</p>		
121401T1 Rule		DTM
<p>Cast 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.</p>		

		Status	Location
111001T20	Surface gauge		DTM
Steel, 6" high, unsigned. A typical shop made tool of the era.			
81101T18	Try square		DTM
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			
71401T14	Try square		DTM
Cast iron and cast 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.			
83102T4	Wire gauge		DTM
Cast 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 Roebling or a Washburn and Moen's gauge?			

Miscellaneous Forged Hardware

92911T10	Bar stock		DTM
Hand-forged malleable iron, 36" long, 1" wide, 1" high, unsigned.			

Miscellaneous Items

TJR3501	Cupboard		DTM
Wood and glass, 12" long, 6" wide, unsigned.			
111001T22	Graining tools (set of 11)		DTM
Cast steel?, 3 1/2" high, widths vary from 3/4" to 4", unsigned. 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
Brass and leather, 7 1/2" long, 2 1/2" brass nozzle with closure, unsigned. A generic Civil War era gunpowder container with hand sewn leather.			
33002T7	Horseshoe		DTM
Forged iron or malleable steel, 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			
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.			
41203T14	Lightening rod		LPC
Bronze, the longest of the 5 points is 8 1/2", unsigned. 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
Brass, copper and tin solder, 12 3/4" high, unsigned, c. 1850. 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 is watchmakers' kits?			

Davistown Museum Inventory of Tools - Maritime IV

Miscellaneous Items

Status Location

10402T1 **Ships' clock**

LPC

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

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

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>

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

DTM

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". 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

31501T3 **Box hook**

DTM

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.

041505T40 **Burnisher**

DTM

Lignum, 15 1/2" long, 1 1/2" wide, unsigned.

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

31701T1 **Candlewick cutter**

DTM

German (?) steel with cast iron handles, 5 3/4" long, signed "W_BANNA_ PATD _ 25th ____".

No such maker is listed in DATM (Nelson 1999). A generic 19th century tool with a mysterious maker's mark.

TCX1002 **Caulking Iron**

DTM

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>

913108T29 **Chamfering tool**

DTM

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.

TCR1012 **Clamp**

DTM

Cast or drop forged iron, 5" long including the lever and thumbscrew with a 2" throat, signed "KNOTT BOSTON".

Maker not listed in DATM; unknown use. What was the function of this strange clamp?

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

70701T9 **Cold chisel**

DTM

Steel, 6" long, 1/2" wide, signed "C Drew & Co".

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

913108T46B **Countersink**

DTM

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 gentlemans' brace.

Davistown Museum Inventory of Tools - Maritime IV

Miscellaneous Tools

Status Location

090508T6 **Expansion bit**

DTM

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>

913108T4 **Float**

DTM

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.

TCR1021 **Gasket cutter**

DTM

Dropped forged iron and steel?, 9 7/8" long and 5 7/8" wide, unsigned, c. 1850.

<http://www.davistownmuseum.org/pics/tcr1021.jpg>

102100T12 **Gimlet**

DTM

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

A generic style steel gimlet common in the 19th century.

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

TCR1016 **Hand vise**

DTM

Forged iron, 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.

42801T21 **Hand vise**

DTM

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

Steel, 3 1/8" long, 1" wide jaw, signed "Heile and Quack".

No Heile and Quack are listed in DATM (Nelson 1999). A probable example of a German made tool using German steel.

51606T10 **Hoop driver**

DTM

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.

090508T9 **Lathing hatchet**

DTM

Cast steel, 6 3/4" long, 2" wide blade, signed "UNDERHILL" and "EDGE TOOL Co".

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

111001T36 **Leather cutter**

DTM

Cast steel, 4 1/4" long, 7/8" diameter serrated cutting edge, marked "7/8".

71908T1 **Level**

DA

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>

33002T4 **Nail header**

DTM

Malleable 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, ca. 1855?

Davistown Museum Inventory of Tools - Maritime IV

Miscellaneous Tools

	Status	Location
81200T5 Nail puller	DTM	MH
Forged iron, wood and brass, 16 3/4" long, unsigned, c. 1840 - 1860.		
102100T8 Nail set	DTM	
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, ca. 1870?		
102100T9 Pin vise	DTM	
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.)		
TCR1021A Pliers?	DTM	
Forged steel?, 5 1/2" long, signed "? . NISSEL". Maker not listed in DATM.		
103104T2 Pry bar	DTM	
Forged iron, 2' long, 2 1/4" wide, unsigned. This tool is also called a wrecking iron.		
31011T4 Punch	DTM	
Cast steel, 5 5/8" long, 1/2" wide, signed "C. DREW & CO." "CAST STEEL". http://www.davistownmuseum.org/bio#bioDrew.htm		
43006T8 Push screwdriver	DTM	
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. An example of an early factory made push screwdriver, but who made this 1850 - 1875 tool?		
30202T2 Saw set	DTM	
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	
Cast steel, 5" long, signed "P ? Hopkins". No P. Hopkins is listed in DATM (Nelson 1999). An unknown 19th century New England toolmaker.		
914108T14 Scissors	DTM	
Drop-forged metal, 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.		
14302T20 Screwdriver	DTM	
Malleable steel, size unknown, unsigned. This three pronged driver is nicely beveled.		
41203T7 Screwdriver	DTM	
Wrought iron, brass and wood, 20 1/2" long with a 7 1/4" long handle and ferrule, unsigned. 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	
Cast steel, 31 1/4" long, obscure signature " ____ JR. ____ VT".		
103104T1 Soldering iron	DTM	
Wrought iron, brass, and copper, 16 1/4" long, unsigned.		

Davistown Museum Inventory of Tools - Maritime IV

Miscellaneous Tools

Status Location

914108T6 Spoon

DTM

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.

32708T43 Traveler wheel

DTM

Metal, 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>

32708T44 Traveler wheel

DTM

Metal, 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>

041505T27 Turning tool

DTM

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.

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

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

3405T2 Wire gauge

DTM

Steel, 3 3/4" long, signed "LACENE Mfg. Co Manchester NH" also numerated 2 -12.

Handstamped with numerals. Lacene is not listed in DATM (Nelson 1999).

3405T5 Wire guage

DTM

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?

Other Woodworking Tools

33002T3 Bit brace

DTM

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

Cast steel, .

This collection is intriguing because, though coming from the same tool chest, they all have different manufacturer's marks. 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>

Patternmakers' Tools

The appearance of patternmaker's 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

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?

Davistown Museum Inventory of Tools - Maritime IV

Patternmakers' Tools

Status Location

TCT1002 **Gouge**

DTM

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

TCT1007 **Lifter**

DTM

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

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

TCT1301 **Lifter**

DTM

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

TCT1008 **Molding tool**

DTM

Drop forged steel, unsigned.

Used for smoothing the sand cast prior to pouring the molten metal into the cast.

TCT1003 **Patternmakers' slick**

DTM

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 **Slick**

DTM

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

TCT1004 **Slick**

DTM

Drop forged iron, 5" long, obscured signature.

62202T9 **Slicks (2)**

DTM

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

Typical slicks found in a patternmakers' tool kit.

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

TCT1001 **Spoke shave**

DTM

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

Patternmakers' Tools - H A Cobbett Group

42801T5 **Rule**

BDM

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) 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." (pg. 210). The rest of the Cobbett group are in the Industrial Revolution section.

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

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

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>

Davistown Museum Inventory of Tools - Maritime IV

Planes made in Maine

Status Location

81101T1 Double sash plane

BDTM

Wood (beech) and steel blades, 9 1/2" long, 5/8" wide blades, plane signed "B Morrill Bangor" and blades signed "James Cam". RMTM lists Morrill as working in Bangor as early as 1832. (See 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 1830's.

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

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

032203T11 Moulding plane

DTM

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 moulding planes wouldn't have been unexpected in a ca. 1880 carpenters' tool box in Portland.

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

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

061905T1 Plane

DTM

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 "Hallorhan" 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

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. 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 ship's 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

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

Wood (beech), 9 7/16" long, 2 1/4" wide, unsigned "L.S. SOULE WALDOBORO ME." also signed "J.R.B. BULL" in much smaller print.

It has no blade and a replaced wedge. Pollack 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).

Planes not made in Maine

Davistown Museum Inventory of Tools - Maritime IV

Planes not made in Maine

	Status	Location
1302T5 Beading plane		DTM
Wood with a steel blade, 9 1/2" long, 1/2" wide blade, signed "P M Peckham Fall River". An uncommon mark of a whaling era planemaker who worked from 1850 - 1860.		
32802T11 Bench plane		DTM
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
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 plane makers. 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		
092409T2 Carriage-makers' molding plane		DTM
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. From a Middlesex county, MA, carriage shop. http://www.davistownmuseum.org/pics/092409T2web1.jpg http://www.davistownmuseum.org/pics/092409T2web2.jpg		
092409T1 Carriage-makers' router plane		DTM
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
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 moulding plane		DTM
Cast steel, 9 3/4" long, signed "J. T. Jones Philadelphia" with owner signature "AFW". Pollak lists J. T. Jones as working in Philadelphia between 1831 and 1846. http://www.davistownmuseum.org/publications/volume10.html		
12900T3 Dado plane		DTM
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, ca. 1864 - 1869.		
72002T9 Gutter plane		DTM
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
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, Patented transitional & metallic planes in America 1827 - 1927, Vol.1, pg 39. http://www.davistownmuseum.org/pics/111106t1.jpg		

Davistown Museum Inventory of Tools - Maritime IV

Planes not made in Maine

	Status	Location
101801T4 Moulding plane	DTM	
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	
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	
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. A typical imported English Sheffield steel plane blade by a prominent English maker.		
TCD1007 Plough plane	DTM	
Wood (beech), 8" long, 9 1/4" fence, signed "J. Kellogg", circa 1845. J. Kellogg (1835-1867), Amherst, MA. 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) (pg. 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		
72002T10 Rabbet plane	DTM	
Wood with steel blade, 19 1/2" long, 7/8" wide, signed "T Swett" and "Wm True", both owner's signatures. A nice example of a mid-19th century boatyard tool used for?		
42405T1 Razee plane	DTM	
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. A typical run of the mill Maine owner-made boat shop plane of the mid-19th century.		
6405T1 Razee plane	DTM	
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		
101801T5 Remaining planes in Abiel Walker's toolkit	DTM	
Cast steel, . Two more Union Factory planes, a quarter round moulding plane signed with "AFW", a small sash plane signed with "AFW", and a number of undistinguished later moulding planes. http://www.davistownmuseum.org/publications/volume10.html		
04505T8 Shipwrights' plane bodies (2)	DTM	
Tropical wood, unsigned. These plane bodies are accompanied by four pieces of wood. http://www.davistownmuseum.org/pics/041505t8_p2.jpg		
110404T1 Smooth plane	LPC	
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		

Davistown Museum Inventory of Tools - Maritime IV

Planes not made in Maine

42405T2 Smooth plane

Status Location

DTM

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.

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>

91303T5 Spar plane

DTM

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 (DATM99, pg. 202).

42904T7 Spar plane

DTM

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

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>

Quarrying Tools

41302T8 Feathers and wedges (lot of 12)

DTM

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

The traditional tools used by Maine quarrymen for splitting granite.

1302T2 Quarry grapple

DTM

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

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

Saws

913108T34A Back saw

DTM

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 Back saw

DTM

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>

4105T2 Backsaw

DTM

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

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.

Davistown Museum Inventory of Tools - Maritime IV

		Saws
		Status Location
7309T6	Buck saw	DTM
Steel, rope, leather, and wood, 46" wide, 35" long blade, unsigned. A finely crafted gentlemans' 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
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
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?		
71903T2	Ice saw	DTM
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.		
TJD1003	Keyhole saw	DTM
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 ca. 1870. Saws with his mark resurface frequently.		
TJD1007	Pad saw	DTM
Reforged steel, 8 3/4" long, blade 3 1/2" long, unsigned, c. 1860. The blade is made from a recycled hack saw blade.		
TCW3000	Pad saw	DTM
Steel, brass and wood, 9 1/4" long including the handle, unsigned. Is the delicate blade on this pad saw blacksmith made?		

Shipsmiths' Tools

120907T7	Caulking wheel	DTM
Hand-forged steel, 8" long, 2 1/4" wide, unsigned. This tool is used to finish caulking work on a ship.		

Shipwrights' and Mariners' Tools

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		
120907T6	Caulk remover	DTM
Forged steel, 13" long, 2" wide, unsigned. A heavy hooked implement for removing caulk from ships.		
3405T3	Caulking iron	DTM
Steel, 5" long, 1 3/4" wide, signed "H. Reed". H. Reed is listed in DATM (Nelson 1999) but with no working dates or location. 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		
120907T8	Caulking iron (2)	DTM
Cast steel, 7" long, 2" wide and 6" long, 1" wide, signed "C. DREW & CO" and "CAST STEEL".		

Davistown Museum Inventory of Tools - Maritime IV

Shipwrights' and Mariners' Tools

	Status	Location
120907T10 Caulking iron (3)	DTM	
Cast 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". A set of three fairly standard steel caulking irons. The medium sized one shows significant evidence of heat treating.		
120907T5 Caulking mallet	DTM	
Wood with iron bands, 13" long, 1 1/4" wide, unsigned. This is a typical shipbuilders' caulking mallet.		
61204T12 Fid	DTM	
Wood, 18 1/4" long, 2 1/4" diameter, unsigned. 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		
12900T4 Fid	DTM	
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		
040610T1 Harpoon point	DTM	
Forge-welded malleable iron and steel, 29 1/4" long, 6" long cutting edge on the spear point, unsigned. 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." http://www.davistownmuseum.org/pics/040610t1web1.jpg http://www.davistownmuseum.org/pics/040610t1web3.jpg		
TCX1004 Lipped peen adz	DTM	
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.		
913108T56 Marlin spike	DTM	
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. http://www.davistownmuseum.org/bioDrew.htm		
51100T2 Mast shave	DTM	MHC-F
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". White made adzes, chisels, and drawknives, 1837f. A most prolific maker of coopers' jiggers, drawknives, and other edge tools. DATM (Nelson 1999). Many an L. White tool has been recycled to Maine woodworkers in the last 30 years by the Liberty Tool Co. http://www.davistownmuseum.org/pics/51100t2.jpg http://www.davistownmuseum.org/pics/51100t2_p1.jpg		
72801T1 Mast shave	BDTM	
Cast steel, wood and brass, 22 1/2" long, 15 3/4" blade, signed "MALLEET 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. Also see the Registry of Maine Toolmakers by following the bio link. http://www.davistownmuseum.org/pics/72801t1_p3.jpg http://www.davistownmuseum.org/publications/volume10.html		
TCX1006 Mast shave	DTM	
Cast steel and wood, 18" wide with 8" blade, obscure mark similar to White, NY, c. 1840 - 1860. http://www.davistownmuseum.org/pics/TCX1006_p1.jpg		

Davistown Museum Inventory of Tools - Maritime IV

Shipwrights' and Mariners' Tools

	Status	Location
913108T1 Needle	DTM	
Wood, 9" long, unsigned. This needle is used for mending nets.		
111900TX2 Outside calipers	DTM	
Forged iron, unsigned. These large calipers have the provenance of being used on the keels and ribbing in a Maine shipyard (Lubec).		
52403T1 Shipbuilders' adz	LPC	
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, ca. 1869. He is also listed as a Maine axemaker, 1832 - 64 by Yeaton. See his Registry of Maine Toolmaker listing by following the bio link. http://www.davistownmuseum.org/pics/52403t1_p1.jpg http://www.davistownmuseum.org/publications/volume10.html		
TCX1003 Ships' caulking iron	DTM	
Cast steel, 5 3/4" long, 2" wide, signed "C.B. Timpson & Tucker". There is no listing for T&T in DATM, but there is a listing for C. B. Timpson with no location or date. An unrecorded 19th c. 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.		

Silversmithing Tools

TCY1003 Hammer	DTM	
Forged or cast steel, 9 3/4" long, 2 1/2" round head, unsigned. For metalworking? Use unknown.		
TCY1004 Jewelers' hammer	DTM	
Forged or cast steel, 2 1/4" long, 3/8" square face, obscured mark.		
TCY1001 Tongs (3)	DTM	
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.		

Tools Made from Recycled Farriers' Rasps or Files

913108T45 Coopers' bung	DTM	
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.		

Unidentified Tools

81801T16 Unidentified tool	DTM	
7 1/4" long, marked "PATENT PENDING". This spring controlled tool combines characteristics of pliers, chain cutters and tubing benders. What is its use?		
42602T7 Unidentified tool	DTM	
Cast steel and baleen, 6 3/4" long, two 15/16" disks for trimming or cutting, 3 3/4" long baleen handle, signed "Rodgers Culters to his Majesty" with 2 cartouches and on reverse side "England". Was this for sharpening knives? A great whatsit.		
91303T19 Unknown tool	DTM	
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?		

Watchmakers and Jewelers' Tools

32502T11 Awl	BDM	
Steel, wood and brass, 3 1/2" long, unsigned. http://www.davistownmuseum.org/bioEpstein.htm		

Davistown Museum Inventory of Tools - Maritime IV

Watchmakers and Jewelers' Tools

	Status	Location
32502T15 Burin (3)		BDTM
Cast steel, wood handles, unsigned. http://www.davistownmuseum.org/bioEpstein.htm		
32502T37 Divider		BDTM
Cast steel, 3 3/8" long, obscure mark. http://www.davistownmuseum.org/bioEpstein.htm		
32502T13 Jewelers' hammer		BDTM
Cast steel, 1" long handle, 3 1/2" wide with 1/2" square chamfered face, unsigned. http://www.davistownmuseum.org/bioEpstein.htm		
32502T5 Punch		BDTM
Cast steel, 4 1/4" long, signed "C. HARLTON CAST STEEL" and "6". http://www.davistownmuseum.org/bioEpstein.htm		
32502T17 Tweezer - clamp		BDTM
Cast steel and whale bone handle, 4 5/8" long including the 2 5/8" long handle, unsigned. http://www.davistownmuseum.org/bioEpstein.htm		

Wrenches

102904T6 Adjustable wrench		DTM
Drop-forged iron and steel, 13 1/4" long, 3 3/4" long and 1 1/8" wide jaws, marked "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 (see Cope, pg. 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		
11301T12 Monkey wrench		BDTM
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		
52603T16 Open ended wrench		DTM
Iron, 6 10/16" long, signed "YORK Co.".		
TCZ1008 Open ended wrench		DTM
Forged iron, 7 1/2" long, 5/8" and 3/4" ends, signed "YORK M. Co", c. 1850 - 1860. Maker not listed in DATM (Nelson 1999).		
TCZ1006A Open ended wrenches		DTM
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		
31501T2 Wrench		DTM
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.		
090109T7 Wrench		DTM
Cast steel and wood, 11 3/4" long closed, 2 3/8" wide head, unsigned.		