

SCORED

Herkimer Co. ---- Her-1, 1a, 2
 Monroe Co. ----- Par-5; Rig-5; Web-3
 Orleans Co. ----- Alb-2; Gai-5; Ken-3
 Otsego Co. ----- Ots-3
 Wayne Co. ----- Ont-4; Wal-10

GROUTED

Genesee Co. ----- Ala-1; Ale-4; Bat-1; Dar-2; Elb-3; Oak-1, 2; Sta-2
 Livingston Co. -- Lei-1
 Niagara Co. ----- Wil-10 (Not cobblestone)
 Orleans Co. ----- Bar-7
 Wyoming Co. ----- WYO-2,5,7

HORIZONTAL ROUNDED

Monroe Co. ----- Cla-1; Ham-2; Par-1, 4
 Ontario Co. ----- Gor-1, 4; Man-2; Phe-10, 15, 22; Sen-3, 4, 5, 6
 Orleans Co. ----- Alb-2, 3; Car-5; Cla-1; Gai-4, 5, 9, 23;
 Ken-2, 3, 4, 5, 7; Mur-3, 12; Yat-1, 4
 Wayne Co. ----- Arc-3, 4, 5; Pal-7, 8; Sav-2
 Yates Co. ----- YAT-1, 5, 6

HORIZONTAL AND VERTICAL SIMILAR (Mortar looks square)

Cayuga Co. ----- CAY-17
 Genesee Co. ----- Ler-2, 3
 Livingston Co. -- Con-2; Gen-2; Gro-1
 Madison Co. ----- Mad-1
 Monroe Co. ----- Cla-7, 8, 11, 12; Ken-3, 4, 12; Par-10; Rus-1, 2
 Niagara Co. ----- Har-1, 6
 Oneida Co. ----- One-2
 Ontario Co. ----- Wbl-3, 8
 Orleans Co. ----- Mur-1, 3, 10
 Wayne Co. ----- Lyo-1, 10; Wil-1

VERTICAL THIN ROUNDED

Monroe Co. ----- Cla-1; Ham-2
 Niagara Co. ----- Par-3
 Ontario Co. ----- Gor-4; Phe-10
 Orleans Co. ----- Alb-1, 2, 3; Car-1, 5; Gai-5, 9, 12, 16;
 Ken-2, 3, 5, 7; Mur-6, 12; Yat-1, 4, 5
 Wayne Co. ----- Sod-30
 Wyoming Co. ----- WYO-8

VERTICAL - NO EMBELLISHMENT

Cayuga Co. ----- CAY-9, 12, 23
 Cortland Co. ----- Cor-1
 Herkimer Co. ----- Her-1, 1a, 2
 Livingston Co. -- Con-1; Lim-1
 Madison Co. ----- Mad-1, 3, 5, 6, 7

MORTAR

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VERTICAL - NO EMBELLISHMENT (continued)

Monroe Co. ----- Cla-10, 13; Gre-1; Ham-3, 4; Iro-1; Web-4; Whe-4
Niagara Co. ----- Har-3, 4, 7; Loc-2, 3, 4; New-1; Roy-4; Som-3;
Wil-2, 5, 11
Oneida Co. ----- One-1
Onondaga Co. ----- Ono-4, 6
Ontario Co. ----- Bri-1; Far-2; Phe-17, 21
Orleans Co. ----- Bar-8; Gai-4; Rid-3
Otsego Co. ----- Ots-1
Steuben Co. ----- Ste-1, 2
Wayne Co. ----- Gal-8; Mar-2; Pal-21; Sod-1, 12, 20, 21, 22; Wal-11
Yates Co. ----- YAT-4, 5

VERTICAL SLIGHT EMBELLISHMENT

Cayuga Co. ----- CAY-1, 4, 5, 10, 13, 15, 18, 21
Genesee Co. ----- Ler-1
Livingston Co. -- Nun-1
Madison Co. ----- Mad-4
Monroe Co. ----- Chi-1, 4, 6, 7, 8; Cla-2, 3, 4, 6, 7, 8, 9, 12;
Hen-2, 5, 10, 14; Men-1, 2, 6, 7, 8;
Par-6, 10; Per-2; Web-1
Niagara Co. ----- Har-2, 6; Por-2; Som-2; Wil-1
Onondaga Co. ----- Ono-1, 3
Ontario Co. ----- Far-1, 5; Gen-3; Man-1, 5; Phe-3, 4, 13, 14, 15, 22;
Sen-3, 4, 5, 8; Vic-2, 7, 8, 9; Wbl-7
Orleans Co. ----- Bar-1, 2, 5; Car-6; Cla-1; Gai-11, 14, 15, 17,
20, 21, 23, 25, 28; Ken-1, 4; Mur-11;
She-1, 3, 5; Yat-3
Seneca Co. ----- Sen-10, 15, 20
Wayne Co. ----- Arc-2, 3, 4, 5, 8, 9; But-1, 2; Gal-3; Lyo-5, 9;
Mac-1, 3; Mar-1, 4, 7, 8, 10, 12, 14, 15, 16, 21;
Ont-1, 2, 3, 6, 7, 8, 10; Pal-2, 3, 7, 8, 9,
11, 13, 15, 17; Ros-1; Sod-3, 4, 6, 7, 8, 9,
11, 14, 17, 23, 25, 26, 29, 32; Wal-2;
Wil-6, 7, 8, 11, 12, 15, 17, 19, 20, 28; Wol-1
Yates Co. ----- YAT- 6

VERTICAL - HEAVY

Cayuga Co. ----- CAY-3, 6, 11, 14, 16, 17, 20
Genesee Co. ----- Ale-1, 3; Bet-1; Dar-1; Elb-2
Livingston Co. -- Cal-1, 2; Lim-2, 3, 4, 5; Por-1; Yor-1, 2, 3
Monroe Co. ----- Roc-1; Chi-2, 3, 5; Cla-5, 11, 14; Gre-2, 3;
Ham-1, 5; Hen-1, 3, 4, 7, 8, 9, 11;
Men-3, 4, 5, 9; Par-1, 2, 3, 4, 9; Pen-1;
Per-1, 3; Pit-1, 2, 3, 4, 5; Rig-1, 2, 3, 4, 5;
Rus-3, 4, 6; Swe-1; Web-2; Whe-1, 3, 5, 6, 7, 8
Niagara Co. ----- Har-8, 9, 10; Loc-1; New-2, 3, 4; Por-1;
Roy-1, 2, 7
Onondaga Co. ----- Ono-2, 6

VERTICAL - HEAVY (continued)

Ontario Co. ----- Can-1, 2, 3, 4, 5, 6; Far-3, 4, 7, 8, 9;
 Gen-1, 2, 4; Gor-1, 2, 3, 5; Hop-1, 2;
 Man-2, 3, 4, 6, 8, 10, 11; Phe-2, 5, 6, 7, 11,
 12, 16, 20, 23, 24; Sen-1, 6, 7, 9; Vic-1, 3,
 4, 5, 6, 10, 11, 12, 13; Wbl-1, 2, 3, 6, 8
 Orleans Co. ----- Bar-4; Car-3, 7; Gai-1, 2, 19, 26, 27;
 Mur-2, 7, 9, 13, 14, 15; Rid-1, 2, 4, 5, 6, 7;
 She-4; Yat-2
 Seneca Co. ----- Sen-2, 3, 4, 5, 6, 7, 8, 9, 12, 17
 Wayne Co. ----- Arc-1, 6, 7, 10; Gai-1, 5, 7; Hur-1, 2;
 Lyo-2, 3, 6, 7, 8; Mac-2, 4; Mar-3, 5, 9, 11,
 13, 17, 18, 19, 20; Ont-5, 9, 11, 12;
 Pal-1, 4, 5, 6, 12, 14, 16; Ros-2, 3, 4;
 Say-1, 2; Sod-2, 5, 10, 13, 15, 16, 18, 19,
 24, 30a & b, 31; Wal-1, 3, 4, 9;
 Wil-1, 2, 3, 4, 5, 9, 10, 14, 16, 18.
 Wyoming Co. ----- WYO-1, 3, 4, 6, 7
 Yates Co. ----- YAT-1, 2, 3, 7, 8

VERTICAL VERY HEAVY, BOLD

Cayuga Co. ----- CAY-2
 Genesee Co. ----- Elb-1
 Livingston Co. -- Cal-2; Gen-3
 Monroe Co. ----- Hen-6; Iro-2; Men-10; Rus-5
 Ontario Co. ----- Man-7, 9; Phe-1, 8, 9, 18, 19; Wbl-4
 Seneca Co. ----- Sen-1, 11
 Wayne Co. ----- Gal-2, 4, 6; Lyo-11; Pal-10

VERTICAL PYRAMIDS (Bottom of vertical expanded into a pyramid)

Cayuga Co. ----- CAY-7, 8
 Genesee Co. ----- Ler-1
 Livingston Co. -- Lim-1
 Madison Co. ----- Mad-2
 Monroe Co. ----- Chi-8; Men-5; Par-2, 7; Per-1; Pit-5;
 Rig-1, 4; Whe-1, 6, 7
 Niagara Co. ----- Por-1; Roy-3; Som-2
 Onondaga Co. ----- ONO-2, 5, 7, 8, 9, 10, 11
 Ontario Co. ----- Can-3, 4, 5; Far-3, 4, 5, 7, 8; Gen-1, 1a, 2, 3, 4;
 Gor-1, 2; Hop-1; Man-1, 2, 3, 4, 10, 11;
 Phe-2, 3, 4, 5, 13, 14, 15, 16, 22, 23;
 Sen-3, 6, 9; Vic-10, 11
 Orleans Co. ----- Bar-5; Car-3, 5; Gai-14, 19, 27, 28;
 Ken-4; Mur-2; Rid-1, 4, 5; She-2, 3; Yat-2
 Otsego Co. ----- OTS-2
 Seneca Co. ----- Sen-11, 14, 18, 19
 Wayne Co. ----- Arc-1, 2, 3, 4, 5, 6, 10; Hur-2; Lyo-2, 4, 11;
 Mac-2, 4, 7; Mar-3, 4, 5, 6, 8, 12, 13, 14, 15,
 16, 18, 19, 20, 21; Ont-2, 5, 6, 7, 8, 9, 10,
 11, 12; Pal-1, 4, 5, 6, 8, 11, 12, 14, 15, 16,
 17, 18, 19, 20, 21, 22, 23; Ros-1, 2, 3, 4;
 Sod-7, 8, 10, 13, 14, 15, 16, 19, 23, 24, 25,
 26, 30a & b, 35, 36; Wal-2, 3, 4, 5, 6, 7, 8, 12;
 Wil-1, 2, 3, 4, 6, 9, 10, 12, 14, 15, 16, 17,
 18, 20, 21, 22, 23
 Yates Co. ----- YAT-1, 3, 6, 7, 7a, 8

MORTAR

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STONES IN FLAT MORTAR MATRIX

Albany Co. ----- Alb-1, 2, 3

BRUSH MARKS IN MORTAR

Niagara Co. ----- Roy-1

Ontario Co. ----- Phe-23a

PINK MORTAR

Wyoming Co. ----- WYO-2

COMPLETE ON INNER SURFACE ONLY

Ontario Co. ----- Hop-1a; Nap-1

HEXAGONAL MORTAR

Rounded stones placed in a matrix of mortar which is depressed in the center around the stone and slopes up from the stone gives a dish-like appearance. The adjacent areas contacted by a single "dish" give the outer edge of the "dish" a hexagonal outline. This type of masonry is usually found on the side or back walls, and only one house has been found in which all walls have this type of structure. It is at 2040 Kent Rd., Carleton in Orleans County.

Hexagonal mortar is found on 28 of 90 structures in Orleans County; 14 of these occur in the town of Gaines. Since Gaines has a total of 28 structures, the hexagonal configuration occurs on 50%.

Only one structure outside of Orleans County has an area of its walls containing hexagonal mortar, and this is the back wall of Harmony Grange in Blodgett Mills, Cortland County. One must consider the possibility that the mason working on this wall got his training in Orleans County, or was taught by a mason who worked there.

SCORED MORTAR

The cobblestone structures that contain areas in which the mortar between stones is scored by a tool can be divided into four types.

In Monroe County, two structures, one in Parma at 221 Peck Rd. (Par - 5), and one in Churchville (Rig - 5), each has a part of a wall scored horizontally and vertically by a double edged tool. These scoring marks usually follow the contour of the stones and are not necessarily in straight lines.

In Orleans County, three structures, one on Butts Rd. in Albion (Alb - 2), one at 2378 Gaines Rd., Gaines (Gai - 5) and another at 1351 Center Rd., Kendall (Ken - 5), all have the space between stones scored vertically. A thin double edged tool was used, which scored two parallel lines, leaving the mortar between the lines appear to be raised.

The houses at 5668 Lincoln Rd. (Ont - 4) and 122 Hance Rd. (Wal - 10), both in western Wayne County, and the house at 93 Main St., Webster (Web - 3), Monroe County, all have scored mortar. The marks were made by a double edged tool used to score both horizontal and vertical lines. In each instance, the vertical scoring originates in the upper left and extends toward the lower right. Thus the scoring appears to have been done by a right-handed mason. According to Carl Schmidt's book (1966), the mason on Web - 3 was a man named Dean. It would appear that Ont - 4 and Wal - 10 were built by the same man. Both Web - 3 and Wal - 10 have brick quoins. The legs of a triangle drawn between these three houses are roughly 4, 5 and 7 miles.

In West Winfield, Herkimer County, (Her - 1 and 1a), the house and barn both have areas where the stones appear to be protruding from a matrix of mortar which is scored with a double line horizontally, while vertically there is only a single tooled line. The former schoolhouse on County Road 24 at County Road 23, Schuyler Lake, Otsego County, (Ots - 3), which is about 10 miles from W. Winfield, has areas in its walls which, for all practical purposes, are identical to Her - 1 and 1a, and probably were made by the same mason. The Herkimer buildings have other unique features, which probably indicates that the mason doing the scoring was one of a group of masons.

WHITE PARTICLES IN MORTAR

In a number of buildings, the mortar contains white particles of varying sizes. They are fairly common in several counties, but one is impressed by the frequency with which they are found in Wayne County. At one house the owner removed one of the larger particles so that it could be analyzed chemically. It turned out to be practically pure calcium carbonate (CaCO_3).

In the preparation of mortar, limestone (CaCO_3) is burned, releasing carbon dioxide and thus forming quick-lime (CaO). This oxide is slaked with water, producing slaked lime (CaOH). This is then mixed with sand to prepare the mortar. When exposed to air, the slaked lime reacts with carbon dioxide in the air, and limestone (CaCO_3) is formed.

The white particles are simply little lumps of slaked lime which did not get mixed with the sand. Therefore, they were converted to CaCO_3 without dilution.