

Research in inscriptional palaeography (RIP). Tombstone lettering in Dumfries and Galloway

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ABSTRACT

A comprehensive and detailed survey was made of lettering on all accessible tombstone inscriptions in Dumfries and Galloway. Using statistical and other analytical techniques, a large amount of data was extracted. From this, comparisons were made with data from the author's previous study of inscriptional lettering throughout Scotland. The distributions of a number of letterform attributes were mapped, in some instances revealing clear geographical trends. The interesting subregional groupings in Dumfries and Galloway identified in the initial national survey were confirmed when the comprehensive data were used, though the distinctions were not so clear-cut. The rise of three more or less distinct area profiles identified using 42 letterform attributes is likened to the development of a dialect or accent, not learned by imitation, but subconsciously acquired as a consequence of living in local divergent communities.

INTRODUCTION

Lettering on tombstones of the late and post-medieval period is a subject that has been largely ignored until recently. The author undertook a survey of gravestone lettering throughout Scotland based on a sample of 132 mainland burial sites (Thomson 2001a). This work established a number of principles for future research, in particular the categorization of lettering styles, the selection of letterform attributes (variables) for use in analysis and a range of univariate and multivariate statistical techniques that can be used to investigate temporal changes and geographical variation (Thomson 2001b). One of the main outcomes of this preliminary research was a range of baseline data with which future studies can be compared.

Tombstone sculpture represents an important and accessible collection of folk art. Commemoration is principally recorded through lettering that represents an invaluable resource

for the study of local communities, traditions and tastes. Moreover, it can be used as a cultural marker. This can be established through a detailed investigation of specific lettering styles (Thomson 2002) or by statistical analysis of data extracted from a range of seemingly abstruse attributes. The analysis of data based on 42 attributes from a sample of 20 sites in Dumfries and Galloway indicated that inscriptional lettering in the region diverged into three fairly distinct groups: south-eastern Dumfriesshire, the rest of Dumfriesshire together with all but the west of the Stewartry of Kirkcudbright and the western part of the Stewartry with Wigtownshire. Without the use of multivariate statistical methods, the differences between the inscriptions in these areas are not immediately apparent. It was suggested that these groupings were a tangible expression of 'cultural embedment', which is not fully explained simply by suggesting that masons were copying styles in the same or adjacent graveyards.

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TABLE 1

List of sites surveyed with site reference number, community name, site name, National Grid coordinates and sample size

| <i>Site reference no</i> | <i>Community</i> | <i>Site name</i> | <i>NGR</i> | <i>Sample size</i> |
|--------------------------|------------------|-------------------------------------|------------|--------------------|
| 27 | Annan | Annan Old Cemetery | NY 192 666 | 287 |
| 20 | Annan | Annan Old Parish Kirkyard | NY 196 666 | 272 |
| 91 | Anwoth | Anwoth | NX 583 562 | 165 |
| 3 | Applegarth | Applegarth Kirkyard | NY 103 848 | 161 |
| 82 | Balmaclellan | Balmaclellan Kirkyard | NX 652 790 | 108 |
| 76 | Balmaghie | Balmaghie Kirkyard | NX 723 663 | 180 |
| 59 | Bankend | Caerlaverock Kirkyard | NY 025 692 | 421 |
| 2 | Beattock | Beattock Kirkyard | NT 082 011 | 141 |
| 37a | Beattock | Drumgree Graveyard | NY 061 967 | 8 |
| 36a | Bentpath | Westerkirk Graveyard | NY 313 903 | 211 |
| 32b | Boreland | Hutton and Corrie Kirkyard | NY 170 908 | 104 |
| 87b | Borgue | Borgue Kirkyard | NX 629 483 | 153 |
| 21a | Brydekirk | Brydekirk Kirkyard | NY 183 704 | 26 |
| 16a | Canonbie | Canonbie (St Martin's) Kirkyard | NY 395 764 | 138 |
| 93b | Carsluith | Kirkdale | NX 512 541 | 30 |
| 93a | Carsluith | Kirkmabreck | NX 493 565 | 111 |
| 80 | Carsphairn | Carsphairn Kirkyard | NX 562 931 | 133 |
| 72b | Castle Douglas | Kelton Kirkyard | NX 761 602 | 362 |
| 30 | Castle Kennedy | Lochinch Kirkyard | NX 103 609 | 224 |
| 16b | Chapelknowe | Half-Morton Kirkyard | NY 333 750 | 44 |
| 64 | Closeburn | Closeburn Kirkyard | NX 904 923 | 152 |
| 78b | Colvend | Colvend Kirkyard | NX 862 541 | 176 |
| 33b | Corrie | Corrie Cemetery | NY 197 843 | 62 |
| 92 | Creetown | Kirkmabreck (Creetown) | NX 476 585 | 76 |
| 75 | Crossmichael | Crossmichael Kirkyard | NX 730 670 | 180 |
| 22 | Cummertrees | Cummertrees Kirkyard | NY 140 664 | 243 |
| 21c | Cummertrees | Trailrow Graveyard | NY 155 722 | 100 |
| 70 | Dalbeattie | Buittle Kirkyard | NX 808 598 | 232 |
| 14a | Dalton | Dalton Kirkyard | NY 089 747 | 42 |
| 14b | Dalton | Little Dalton Kirkyard | NY 089 746 | 11 |
| 31 | Dalton | St Mungo Kirkyard | NY 127 757 | 174 |
| 23 | Dornock | Dornock Kirkyard | NY 230 660 | 292 |
| 102 | Drummore | Kirkmaiden Kirkyard | NX 125 368 | 216 |
| 56b | Dumfries | Lincluden Collegiate Church | NX 967 779 | 2 |
| 54 | Dumfries | Dumfries St Mary's Kirkyard | NX 976 763 | 261 |
| 38 | Dumfries | Dumfries St Michael's Kirkyard | NX 977 757 | 629 |
| 53 | Dumfries | Troqueer Kirkyard | NX 975 750 | 381 |
| 15 | Dundrennan | Dundrennan Abbey and Burial Ground | NX 751 474 | 37 |
| 83 | Dundrennan | Rerrick | NX 760 467 | 185 |
| 61 | Dunscore | Dunscore Kirkyard | NX 887 843 | 164 |
| 67b | Durisdeer | Durisdeer Kirkyard | NS 894 038 | 160 |
| 67a | Durisdeer | Kirkbride Kirkyard | NS 855 057 | 16 |
| 10 | Eaglesfield | Kirkconnel Lea Kirkyard, Springkell | NY 252 754 | 115 |
| 13 | Ecclefechan | Ecclefechan (St Feachan's) Kirkyard | NY 191 743 | 106 |
| 8 | Ecclefechan | Hoddum Kirkyard | NY 185 735 | 145 |
| 43 | Ecclefechan | Pennersaugh's Kirkyard | NY 267 744 | 82 |
| 19b | Eskdalemuir | Eskdalemuir Cemetery | NY 253 979 | 51 |
| 19a | Eskdalemuir | Watcarrick Burial Ground | NY 257 967 | 154 |
| 25b | Ewes | Unthank Kirkyard | NY 387 947 | 29 |
| 72a | Gelston | Gelston Kirkyard | NX 779 573 | 26 |
| 89 | Girthon | Girthon Old Kirkyard | NX 605 534 | 153 |
| 100b | Glasserton | Glasserton Kirkyard | NX 421 381 | 122 |
| 50a | Glenluce | Glenluce Kirkyard | NX 196 574 | 112 |

TABLE 1

List of sites surveyed with site reference number, community name, site name, National Grid coordinates and sample size
(*cont*)

| <i>Site reference no</i> | <i>Community</i> | <i>Site name</i> | <i>NGR</i> | <i>Sample size</i> |
|--------------------------|---------------------|---|------------|--------------------|
| 1 | Gretna | Gretna Old Parish Kirkyard | NY 317 682 | 140 |
| 74 | Haugh of Urr | Urr Kirkyard | NX 817 655 | 225 |
| 21b | Hoddom | Luce Kirkyard | NY 187 724 | 15 |
| 7 | Hoddom | St Kentigern's Burial Ground | NY 166 727 | 71 |
| 58 | Hollywood | Hollywood Kirkyard | NX 955 797 | 185 |
| 62 | Irongray | Kirkpatrick Irongray | NX 915 796 | 179 |
| 26 | Johnstonbridge | Johnstonbridge Kirkyard | NY 100 914 | 214 |
| 65b | Keir | Keir Old Kirkyard | NX 863 931 | 60 |
| 88 | Kirkandrews | Kirkandrews Kirkyard | NX 601 461 | 106 |
| 77 | Kirkbean | Kirkbean Kirkyard | NX 980 592 | 248 |
| 48a | Kirkcolm | Kirkcolm Kirkyard | NX 027 687 | 46 |
| 4a | Kirkconnel | Kirkconnel (St Conal's) Kirkyard | NS 729 123 | 16 |
| 4b | Kirkconnel | Old Kirkconnel (Old St Conal's) Burial Ground | NS 726 153 | 16 |
| 96 | Kirkcowan | Kirkcowan Kirkyard | NX 330 606 | 22 |
| 84a | Kirkcudbright | Dunrod | NX 700 460 | 49 |
| 84b | Kirkcudbright | Galtway Kirkyard | NX 704 486 | 24 |
| 86a | Kirkcudbright | Kirkcormack Kirkyard | NX 716 575 | 21 |
| 12 | Kirkcudbright | Kirkcudbright Cemetery | NX 693 511 | 153 |
| 87a | Kirkcudbright | Senwick Kirkyard | NX 655 460 | 69 |
| 71 | Kirkgunzeon | Kirkgunzeon Kirkyard | NX 866 668 | 144 |
| 97 | Kirkinner | St Kennera Kirkyard | NX 423 515 | 127 |
| 73 | Kirkpatrick Durham | Kirkpatrick Durham Kirkyard | NX 785 695 | 252 |
| 44 | Kirkpatrick Fleming | Kirkpatrick Fleming Kirkyard | NY 276 701 | 306 |
| 60 | Kirkton | Kirkmahoe Kirkyard | NX 975 815 | 415 |
| 25a | Langholm | Ewes Kirkyard | NY 369 908 | 115 |
| 46 | Langholm | Langholm Old Kirkyard | NY 365 846 | 226 |
| 36b | Langholm | Staplegordon Cemetery | NY 352 879 | 31 |
| 47 | Langholm | Wauchope Kirkyard | NY 355 841 | 204 |
| 48b | Leswalt | Leswalt Kirkyard | NX 016 639 | 116 |
| 24b | Lockerbie | Dryfebridge Graveyard | NY 129 838 | 12 |
| 24a | Lockerbie | Dryfesdale Kirkyard | NY 136 819 | 362 |
| 9a | Lochmaben | Lochmaben Kirkyard | NY 083 823 | 264 |
| 9b | Lochmaben | Trailflat Burial Ground | NY 048 841 | 36 |
| 57 | Lochrutton | Lochrutton Kirkyard | NX 912 736 | 147 |
| 42 | Middlebie | Carruthers Cemetery | NY 258 802 | 82 |
| 28a | Middlebie | Middlebie Kirkyard | NY 214 762 | 78 |
| 45 | Minigaff | Minigaff Kirkyard | NX 410 666 | 219 |
| 101 | Mochrum | Mochrum Kirkyard | NX 347 463 | 152 |
| 29 | Moffat | Moffat Old Kirkyard | NT 086 052 | 421 |
| 66 | Moniaive | Glencairn Kirkyard | NX 810 904 | 237 |
| 100a | Monreith | Kirkmaiden Chapel Graveyard | NX 366 400 | 22 |
| 55 | Mouswald | Mouswald Kirkyard | NY 065 727 | 274 |
| 6 | New Abbey | Sweetheart Abbey and Burial Ground | NX 964 664 | 135 |
| 50b | New Luce | New Luce Kirkyard | NX 175 645 | 37 |
| 95 | Newton Stewart | Clachan of Penninghame Old Kirkyard | NX 406 609 | 115 |
| 11 | Newton Stewart | Kells Kirkyard | NX 632 782 | 83 |
| 94 | Newton Stewart | Newton Stewart Old Kirkyard | NX 410 653 | 154 |
| 41 | Parkgate | Kirkmichael Kirkyard | NY 005 884 | 145 |
| 79 | Parton | Parton Kirkyard | NX 697 699 | 86 |
| 65a | Penpont | Penpont Kirkyard | NX 849 944 | 215 |
| 17 | Portpatrick | Portpatrick (St Andrew's) Kirkyard | NX 002 543 | 215 |
| 63 | Portrack | Dunscore Old Graveyard | NX 927 832 | 138 |

TABLE 1

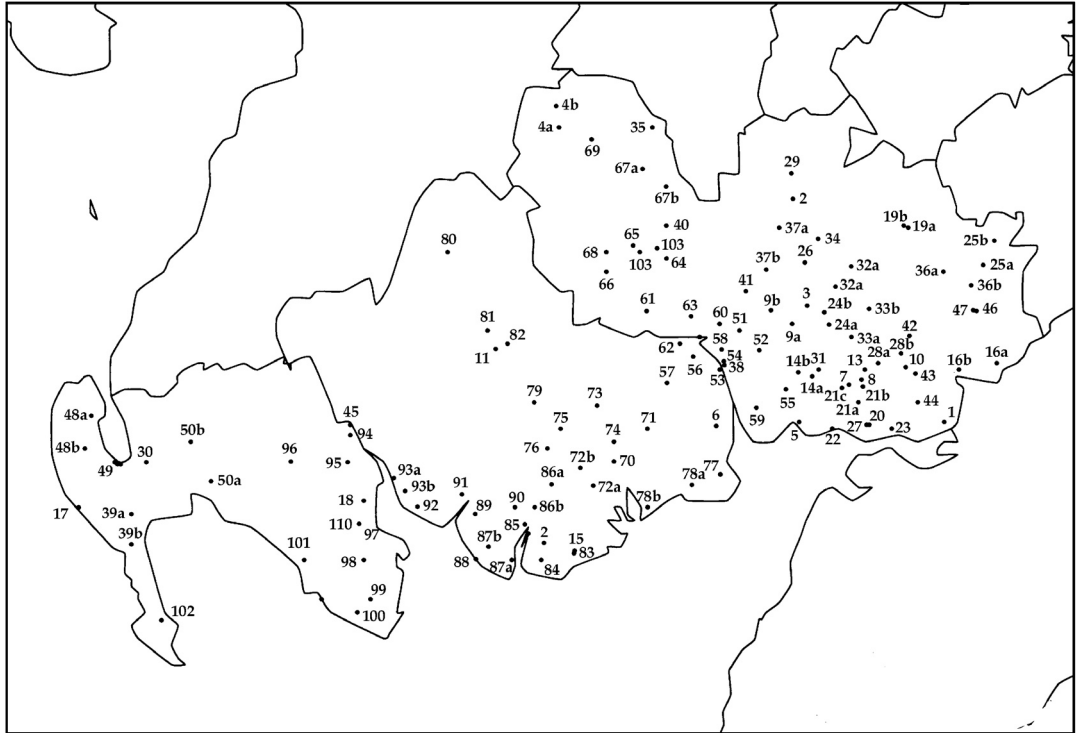
List of sites surveyed with site reference number, community name, site name, National Grid coordinates and sample size
(cont)

| <i>Site reference no</i> | <i>Community</i> | <i>Site name</i> | <i>NGR</i> | <i>Sample size</i> |
|--------------------------|-------------------------|---|------------|--------------------|
| 5 | Ruthwell | Ruthwell (St Cuthbert's) Kirkyard | NY 101 684 | 103 |
| 39b | Sandhead | Kirkmadrine Kirkyard | NX 080 484 | 32 |
| 69 | Sanquhar | Sanquhar (St Brides) Kirkyard | NS 779 102 | 351 |
| 32a | Sibbaldbie | Sibbaldbie Kirkyard | NY 146 877 | 66 |
| 98 | Sorbie | Sorbie Old Kirk Graveyard | NX 439 467 | 183 |
| 78a | Southwick | Southwick Kirkyard | NX 927 574 | 65 |
| 37b | St Anns | Garrel Kirkyard | NY 041 903 | 78 |
| 81 | St John's Town of Dalry | Dalry Kirkyard | NX 618 812 | 169 |
| 85 | Stell | Stell | NX 675 514 | 74 |
| 39a | Stoneykirk | Stoneykirk Kirkyard | NX 089 532 | 177 |
| 49a | Stranraer | Stranraer High Kirkyard, Sheuchan | NX 055 609 | 9 |
| 49b | Stranraer | Stranraer Old Parish Kirkyard Church Street | NX 059 606 | 52 |
| 49c | Stranraer | Stranraer St Andrews Kirkyard | NX 064 606 | 39 |
| 56a | Terregles | Terregles Kirkyard | NX 931 770 | 222 |
| 103 | Thornhill | Dalgarnock Kirkyard | NX 876 936 | 188 |
| 40 | Thornhill | Greenhead | NX 890 970 | 25 |
| 51 | Tinwald | Tinwald Kirkyard | NY 003 816 | 263 |
| 86b | Tongland | Tongland Kirkyard | NX 698 539 | 133 |
| 52 | Torthorwald | Torthorwald Kirkyard | NY 036 782 | 257 |
| 33a | Tundergarth | Tundergarth Kirkyard | NY 175 808 | 98 |
| 90 | Twynholm | Twynholm Kirkyard | NX 664 542 | 137 |
| 68 | Tynron | Tynron Kirkyard | NX 806 930 | 84 |
| 34 | Wamphray | Wamphray Kirkyard | NY 131 965 | 124 |
| 35 | Wanlockhead | Wanlockhead | NS 865 136 | 111 |
| 28b | Waterbeck | Waterbeck (burial site) | NY 245 775 | 5 |
| 99 | Whithorn | Whithorn Priory Kirkyard | NX 444 403 | 215 |
| 18 | Wigtown | Wigtown (St Machutus') Kirkyard | NX 436 555 | 226 |

This interesting situation merited further research and a comprehensive study was made of every legible inscription, dated 1855 or before, on accessible tombstones in Dumfries and Galloway (Table 1). Gaining entrance to graveyards was rarely a problem, although this sometimes involved a considerable walk, occasionally in inhospitable territory. A greater problem was with tombstones that are either more or less buried, or overgrown with ivy, moss or lichen, the disturbance of which could easily damage the memorials and perhaps even incur infringement of the law! In these circumstances the gravestones were excluded from this study. We are fortunate in having a comprehensive annotated list of all 190 burial grounds in the care of Dumfries and Galloway Council, a copy of which is located in the Ewart

Library, Dumfries. Careful examination of maps, exploration and enquiries revealed only a further four sites – Dundrennan Abbey in the Stewartry, and Lincluden Collegiate Church, Little Dalton and Waterbeck in Dumfriesshire. The local authority list includes more recent cemeteries with memorials dated after 1855 and a burial site at Southwick Kirk with no gravestone markers. Some 19,245 inscriptions from the 132 remaining graveyards and other burial sites were recorded and analysed (illus 1); this includes independent recording of primary and secondary inscriptions, a comparison of which frequently gives an insight into changing tastes over a period of time.

Photographic and recording techniques, together with the analytical methods used, were as described in Thomson (2001a), except that the



ILLUS 1 Location of sample sites

simpler principal components analysis (PCA) was used instead of principal axis factoring. The ordinal plots from these two methods differ little in substance. Additionally, mapping of the occurrence of attributes was undertaken using *Genmap* version 2.01 (Archer Software, Dartford). As in Thomson (2001a), Covenanters' memorials were excluded as many were made or recut long after the date recorded on the stones (Love 1989, 101).

RESULTS

DATING

It was to be expected in a more comprehensive study that earlier dates for specific attributes would be found than in the regional sample of the previous survey. Seven such inscriptions were discovered in Dumfries and Galloway. Of these, three were the earliest recorded throughout

Scotland (Table 2). The use of mixed styles in 1648 at Rerrick preceded the earlier published date by some 45 years and brought it closer to the earliest date of 1592 for the attribute for the entire country. An inscription dated 1636 using the form of the capital A with the v-shaped cross bar (A_v_line) was found at Kirkbride, pre-dating the earliest date recorded in the region by 44 years. The earliest date for script lettering in a Scottish tombstone has to be revised downwards to 1669 with the discovery of an inscription at Penpont. The earliest recorded Scottish inscription using block lettering is now 1759. The form of the minuscule n in which the arch of the letter branches from the initial vertical at a distance from it (lcn_sep) was found in a 1640 inscription at Dalgarnock, 20 years before the previously recorded date for that attribute.

Several authors have noted the rapid increase in graveyard commemoration by permanent external memorials in the second half of the

TABLE 2
Letterform attributes – earliest dates

| <i>Attribute</i> | <i>Scotland</i> | <i>SW</i> | <i>D&G</i> | <i>Site</i> |
|---------------------|-----------------|-----------|----------------|---------------------|
| Mixed | 1592 | 1693 | 1648* | Rerrick |
| Not mixed | 1250 | 1273 | 1273 | Dundrennan |
| Gothic | 1380 | 1440 | 1440 | Dundrennan |
| Versal | 1250 | 1273 | 1273 | Dundrennan |
| Roman | 1476 | 1565 | 1565 | Kirkconnel Lea |
| Roman caps | 1476 | 1565 | 1565 | Kirkconnel Lea |
| Roman caps and lc | 1626 | 1660 | 1640* | Dalgarnock |
| Italic | 1649 | 1760 | 1724* | Torthorwald |
| Script | 1683 | 1699 | 1669† | Penpont |
| Sans | 1648 | 1746 | 1741* | Kirkpatrick Fleming |
| Block | 1763 | 1778 | 1759† | Moffat |
| Other | 1644 | 1660 | 1660 | Hoddom |
| Raised | 1301 | 1440 | 1440 | Dundrennan |
| Incised | 1250 | 1273 | 1273 | Dundrennan |
| Caps | 1250 | 1273 | 1273 | Dundrennan |
| Caps and lower case | 1380 | 1440 | 1440 | Dundrennan |
| Ligs | 1500 | 1593 | 1593 | Canonbie |
| No ligs | 1250 | 1273 | 1273 | Dundrennan |
| Height > width | 1250 | 1273 | 1273 | Dundrennan |
| Height = width | 1350 | 1607 | 1607 | Dundrennan |
| Height < width | 1751 | 1751 | 1751 | Beattock |
| Thin | 1250 | 1347 | 1347 | Dundrennan |
| Mid | 1273 | 1273 | 1273 | Dundrennan |
| Thick | 1301 | 1440 | 1400 | Dundrennan |
| Cap > 2Xlc | 1672 | 1698 | 1698 | St Kentigern's |
| Cap = 2Xlc | 1647 | 1660 | 1660 | Hoddom |
| Cap < 2Xlc | 1380 | 1440 | 1440 | Dundrennan |
| A_norm | 1565 | 1565 | 1565 | Kirkconnel Lea |
| A_v_line | 1476 | 1680 | 1636* | Kirkbride |
| A_v_bar | 1500 | 1607 | 1607 | Dundrennan |
| B_in | 1476 | 1593 | 1560* | Trailrow |
| B_not_in | 1603 | 1644 | 1644 | Kirkcudbright |
| E_out | 1500 | 1607 | 1607 | Dundrennan |
| E_in | 1524 | 1593 | 1593 | Canonbie |
| M_v_long | 1613 | 1660 | 1660 | Ruthwell |
| M_v_short | 1476 | 1593 | 1593 | Canonbie |
| R_straight | 1476 | 1614 | 1612* | Anwoth |
| R_curved | 1593 | 1593 | 1593 | Canonbie |
| W_norm | 1627 | 1660 | 1660 | Ruthwell |
| W_2_vs | 1500 | 1593 | 1593 | Canonbie |
| lcn_joined | 1626 | 1660 | 1660 | Hoddom |
| lcn_sep | 1660 | 1660 | 1640† | Dalgarnock |

* Earlier than recorded in preliminary study.

† Earliest recorded in Scotland.

18th century (Burgess 1963; Willsher 1985). The proportionally larger number of tombstones in the period from 1750 until the cut-off date of 1855 for this study effectively weights the average dates for the recorded attributes towards the present (Table 3). Most average dates are between 10 and 20 years later than the sample-based data previously reported, the date over all attributes being 1814 compared with 1803. Some attributes show a significant shift, notably

raised lettering (+70 years) and other styles (+32 years). The average date for the use of versal is 127 years later than earlier reported, although this is based on a small number of inscriptions (n=28). A few more recent 'versal revival' examples severely biased the data towards more recent times. The occurrence of ligatures is the only case where an attribute has an earlier average date in this comprehensive study, by only two years, than in the sample.

TABLE 3
Average dates for the occurrence of letterform attributes

| <i>Attribute</i> | <i>All</i> | <i>SW</i> | <i>D&G</i> |
|---------------------|------------|-----------|----------------|
| Mixed | 1824 | 1821 | 1825 |
| Not mixed | 1786 | 1777 | 1790 |
| Gothic | 1822 | 1819 | 1825 |
| Versal | 1654 | 1643 | 1770* n=28 |
| Roman | 1797 | 1798 | 1810 |
| Roman caps | 1775 | 1766 | 1789 |
| Roman caps and lc | 1815 | 1811 | 1816 |
| Italic | 1823 | 1821 | 1823 |
| Script | 1787 | 1776 | 1778 |
| Sans | 1840 | 1840 | 1841 |
| Block | 1839 | 1835 | 1837 |
| Other | 1822 | 1792 | 1824* |
| Raised | 1720 | 1689 | 1759* |
| Incised | 1810 | 1806 | 1815 |
| Caps | 1799 | 1797 | 1816 |
| Caps and lower case | 1813 | 1807 | 1813 |
| Ligs | 1726 | 1723 | 1721† |
| No ligs | 1811 | 1809 | 1816 |
| Height > width | 1799 | 1795 | 1812 |
| Height = width | 1819 | 1813 | 1821 |
| Height < width | 1833 | 1835 | 1836 |
| Thin | 1785 | 1780 | 1793 |
| Mid | 1819 | 1815 | 1819 |
| Thick | 1821 | 1818 | 1832 |
| Cap > 2Xlc | 1813 | 1801 | 1807 |
| Cap = 2Xlc | 1812 | 1807 | 1814 |
| Cap < 2Xlc | 1814 | 1812 | 1819 |
| A_norm | 1812 | 1806 | 1818 |
| A_v_line | 1745 | 1744 | 1754 |
| A_v_bar | 1692 | 1707 | 1714 |
| B_in | 1805 | 1803 | 1817 |
| B_not_in | 1815 | 1811 | 1818 |
| E_out | 1762 | 1752 | 1790 |
| E_in | 1810 | 1808 | 1818 |
| M_v_long | 1825 | 1821 | 1824 |
| M_v_short | 1751 | 1746 | 1765 |
| R_straight | 1795 | 1782 | 1805 |
| R_curved | 1818 | 1815 | 1823 |
| W_norm | 1825 | 1820 | 1823 |
| W_2_vs | 1750 | 1741 | 1743 |
| lcn_joined | 1811 | 1805 | 1810 |
| lcn_sep | 1814 | 1808 | 1818 |
| All attributes | 1807 | 1803 | 1814 |

* Earlier than recorded in preliminary study.

† Earliest recorded in Scotland.

This is probably due to the relatively uncommon use of ligatures after 1750, weighting the data towards the earlier period.

The mean dates for all inscriptions at all sites are later as we go westwards through the

region, although this is a general trend rather than one that applies to all graveyards. Many of the attributes measured do not reflect this cline; the mean and earliest dates covering roughly the same ranges in the three counties. The mean dates for script and mixed inscriptions are significantly earlier in the east as are, to a lesser extent, the mean dates for gothic and the earliest dates for gothic, script and italic.

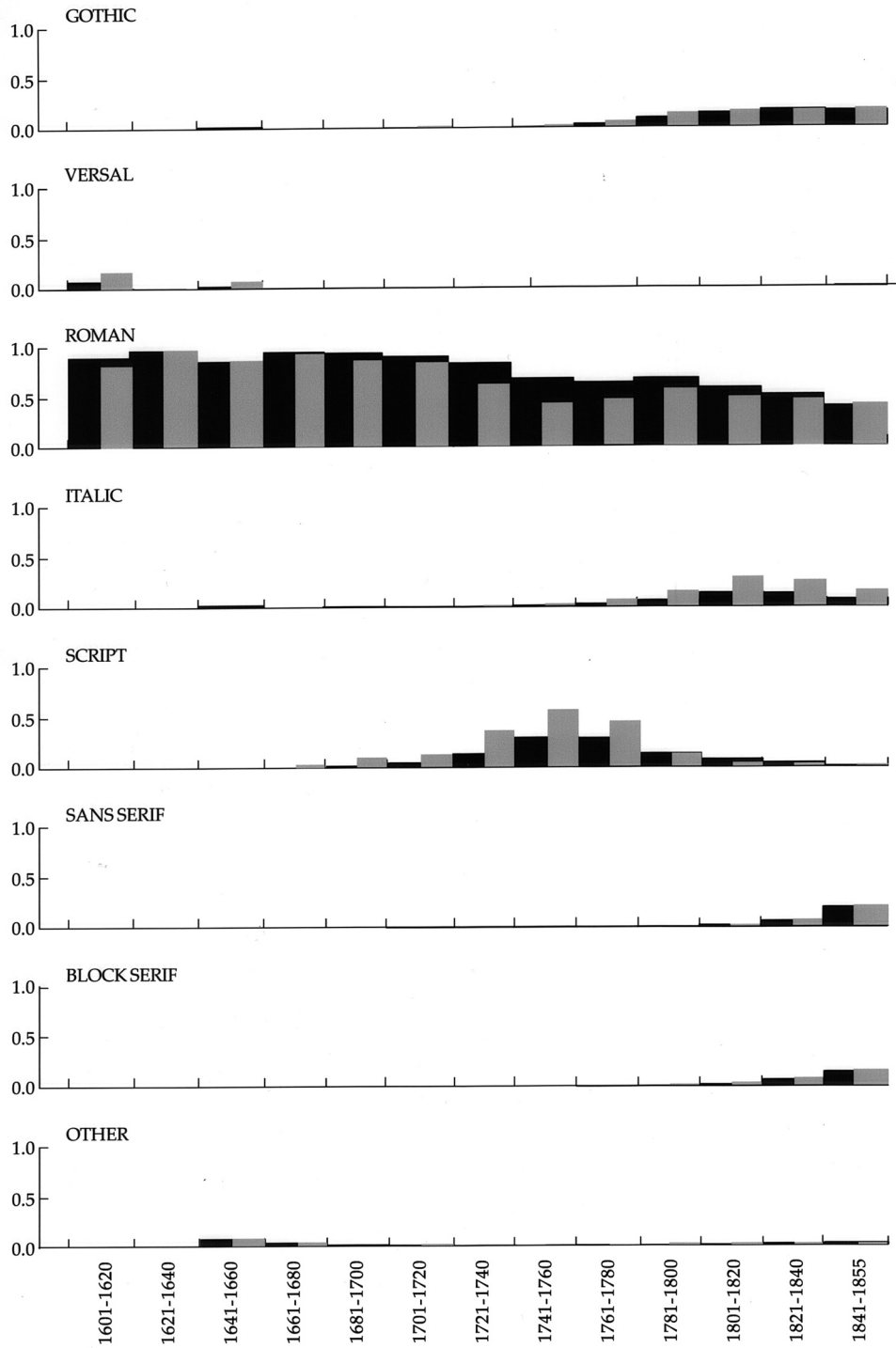
FREQUENCIES

With only relatively insignificant differences, the frequencies of the different lettering styles over the study period of 1241 to 1855 corresponded closely with those for the whole of Scotland. The only difference worth noting is the first appearance of roman – 1565 at Kirkconnel Lea compared with 1476 elsewhere in the country – although there are relatively few memorials for this early period and the data for the period up to 1600 have been omitted (illus 2).

GEOGRAPHIC DISTRIBUTION

The geographical distribution of individual attributes was examined graphically by plotting the occurrence of attributes on maps of the region (not shown). These illustrated relative frequencies within each attribute and were based on actual numbers of observations of each attribute at each burial site. The occurrence of some attributes differed little throughout the three historic counties, while others displayed dramatic variation.

The occurrence of different styles in each site by county is given in Table 4. Adjacent sites with small numbers of inscriptions have been pooled. Gothic lettering is more frequently encountered in the south-east and south-west of the region and less so in central and northern parts. The seemingly apparent dominance of versal inscriptions in the far south of the Stewartry is misleading and largely due to a number of medieval memorials at Dundrennan Abbey. There appears to be a gradual increase in the



ILLUS 2 Style frequencies 1601–1855 in Scotland (black) and Dumfries and Galloway (grey)

TABLE 4
The occurrence of different styles at each site by county (adjacent sites with small numbers of inscriptions have been pooled)

| | Gothic | Versal | Roman | Italic | Script | Sans | Block | Other | Caps | Ligs | Ht_Less | Thick |
|-----------------------------|--------|--------|-------|--------|--------|------|-------|-------|------|------|---------|-------|
| Dumfriesshire | | | | | | | | | | | | |
| Annan Old Cemetery | 92 | 1 | 145 | 14 | 8 | 10 | 3 | 0 | 57 | 7 | 0 | 50 |
| Annan Old Parish | 106 | 1 | 123 | 17 | 2 | 28 | 7 | 0 | 95 | 3 | 2 | 96 |
| Applegarth + Sibbaldbie | 27 | 0 | 123 | 32 | 41 | 0 | 3 | 0 | 51 | 8 | 2 | 16 |
| Beattock + Luce + Trailfrow | 24 | 0 | 158 | 46 | 17 | 1 | 11 | 0 | 73 | 14 | 0 | 43 |
| Brydekirk | 9 | 0 | 11 | 1 | 1 | 4 | 0 | 0 | 14 | 0 | 0 | 21 |
| Caerlaverock | 26 | 0 | 216 | 108 | 10 | 17 | 44 | 0 | 141 | 3 | 0 | 127 |
| Canonbie | 28 | 0 | 96 | 1 | 10 | 1 | 2 | 0 | 54 | 19 | 5 | 19 |
| Carruthers | 21 | 0 | 48 | 2 | 9 | 1 | 1 | 0 | 24 | 4 | 0 | 19 |
| Closeburn | 14 | 0 | 69 | 18 | 17 | 9 | 8 | 2 | 56 | 2 | 0 | 44 |
| Cummertrees | 54 | 1 | 131 | 31 | 14 | 9 | 2 | 0 | 75 | 9 | 0 | 44 |
| Dalgamock | 13 | 1 | 88 | 18 | 35 | 3 | 8 | 2 | 58 | 4 | 0 | 58 |
| Dalton + Little Dalton | 3 | 0 | 25 | 7 | 19 | 0 | 0 | 0 | 15 | 4 | 2 | 5 |
| Dornock | 91 | 0 | 154 | 12 | 4 | 25 | 6 | 0 | 92 | 6 | 2 | 95 |
| Drumgree + Garrel | 7 | 0 | 45 | 12 | 19 | 2 | 1 | 0 | 27 | 4 | 0 | 19 |
| Dryfesdale + Dryfebridge | 54 | 2 | 185 | 81 | 26 | 17 | 7 | 0 | 134 | 7 | 0 | 124 |
| Dumfries St Mary's | 70 | 0 | 76 | 19 | 7 | 25 | 61 | 0 | 83 | 0 | 0 | 147 |
| Dumfries St Michael's | 92 | 2 | 299 | 130 | 40 | 13 | 53 | 0 | 231 | 13 | 3 | 157 |
| Dunscore | 7 | 0 | 96 | 33 | 9 | 3 | 12 | 0 | 39 | 1 | 0 | 18 |
| Dunscore Old | 9 | 0 | 83 | 24 | 9 | 1 | 11 | 0 | 33 | 5 | 0 | 22 |
| Ecclefechachan | 18 | 0 | 79 | 8 | 1 | 0 | 0 | 0 | 42 | 19 | 5 | 15 |
| Ewes | 27 | 0 | 74 | 8 | 2 | 2 | 2 | 0 | 46 | 5 | 0 | 22 |
| Glencain | 11 | 0 | 125 | 46 | 13 | 11 | 23 | 1 | 67 | 2 | 0 | 68 |
| Greenhead | 2 | 0 | 12 | 3 | 3 | 1 | 2 | 1 | 9 | 0 | 0 | 7 |
| Gretna | 28 | 0 | 105 | 0 | 6 | 0 | 1 | 0 | 57 | 32 | 2 | 30 |
| Half-Morton | 11 | 0 | 21 | 2 | 0 | 10 | 0 | 0 | 35 | 0 | 0 | 27 |
| Hoddum | 37 | 0 | 89 | 13 | 5 | 0 | 0 | 0 | 27 | 2 | 6 | 23 |
| Holywood | 16 | 0 | 93 | 48 | 8 | 7 | 11 | 0 | 47 | 0 | 0 | 50 |
| Hutton and Corrie | 18 | 0 | 50 | 16 | 15 | 2 | 3 | 0 | 40 | 6 | 1 | 21 |
| Johnstonbridge | 15 | 1 | 110 | 64 | 6 | 9 | 9 | 0 | 87 | 0 | 0 | 78 |
| Keir | 3 | 2 | 33 | 11 | 0 | 0 | 9 | 0 | 16 | 0 | 0 | 21 |
| Kirkbride + Durisdeer | 7 | 0 | 90 | 14 | 44 | 6 | 7 | 2 | 47 | 4 | 0 | 34 |
| Kirkconnel + Old St Conal's | 1 | 0 | 20 | 5 | 5 | 0 | 1 | 0 | 19 | 7 | 1 | 2 |
| Kirkconnel Lea | 16 | 0 | 81 | 0 | 18 | 0 | 0 | 0 | 42 | 25 | 0 | 7 |
| Kirkmahoe | 39 | 0 | 235 | 82 | 25 | 2 | 31 | 0 | 107 | 3 | 0 | 92 |
| Kirkmichael | 11 | 0 | 77 | 36 | 11 | 4 | 7 | 0 | 51 | 2 | 0 | 48 |
| Kirkpatrick Fleming | 92 | 0 | 178 | 2 | 4 | 25 | 4 | 0 | 143 | 18 | 3 | 107 |

TABLE 4
The occurrence of different styles at each site by county (adjacent sites with small numbers of inscriptions have been pooled) (cont)

| | Gothic | Versal | Roman | Italic | Script | Sans | Block | Other | Caps | Ligs | Ht_Less | Thick |
|-------------------------|--------|--------|-------|--------|--------|------|-------|-------|------|------|---------|-------|
| Langholm | 62 | 0 | 135 | 22 | 1 | 4 | 2 | 0 | 87 | 5 | 1 | 55 |
| Lochmaben+Traillflat | 35 | 1 | 166 | 66 | 22 | 7 | 2 | 0 | 116 | 13 | 14 | 106 |
| Middlebie+Waterbeck | 20 | 0 | 50 | 0 | 6 | 2 | 0 | 0 | 32 | 6 | 0 | 17 |
| Moffat | 35 | 1 | 205 | 72 | 72 | 9 | 25 | 0 | 96 | 2 | 0 | 93 |
| Mouswald | 29 | 0 | 140 | 75 | 15 | 8 | 6 | 0 | 95 | 3 | 0 | 35 |
| Pennershaugh's | 29 | 0 | 46 | 2 | 0 | 3 | 2 | 0 | 21 | 5 | 0 | 17 |
| Penpont | 16 | 0 | 117 | 21 | 12 | 13 | 22 | 1 | 73 | 2 | 0 | 72 |
| Ruthwell | 12 | 0 | 61 | 21 | 5 | 1 | 2 | 0 | 37 | 5 | 3 | 13 |
| Sanquhar | 11 | 0 | 195 | 123 | 10 | 4 | 3 | 0 | 179 | 2 | 0 | 13 |
| St Kentigern's | 9 | 0 | 50 | 4 | 8 | 0 | 0 | 0 | 27 | 13 | 2 | 6 |
| St Mungo | 28 | 2 | 100 | 31 | 7 | 2 | 4 | 0 | 76 | 18 | 1 | 41 |
| Tinwald | 19 | 1 | 153 | 68 | 10 | 3 | 8 | 0 | 90 | 2 | 0 | 68 |
| Torthorwald | 30 | 0 | 140 | 68 | 10 | 7 | 2 | 0 | 87 | 0 | 0 | 54 |
| Tundergarth+Corrie | 32 | 0 | 93 | 10 | 19 | 3 | 3 | 0 | 58 | 22 | 0 | 35 |
| Tynron | 9 | 0 | 43 | 10 | 8 | 3 | 8 | 1 | 27 | 2 | 0 | 25 |
| Unthank | 9 | 0 | 19 | 0 | 0 | 1 | 0 | 0 | 11 | 2 | 0 | 1 |
| Wamphrey | 14 | 0 | 64 | 25 | 14 | 1 | 5 | 0 | 33 | 0 | 0 | 42 |
| Wanlockhead | 10 | 0 | 54 | 32 | 9 | 3 | 1 | 0 | 55 | 1 | 0 | 11 |
| Warrick+Esksdalemuir | 56 | 0 | 122 | 19 | 4 | 2 | 2 | 0 | 53 | 8 | 0 | 27 |
| Wauchope | 62 | 0 | 110 | 19 | 4 | 2 | 7 | 0 | 76 | 10 | 0 | 47 |
| Westerkirk+Staplegordon | 58 | 0 | 142 | 24 | 10 | 2 | 6 | 0 | 81 | 10 | 0 | 39 |
| Stewartry | | | | | | | | | | | | |
| Anwoth | 12 | 0 | 84 | 25 | 26 | 5 | 8 | 0 | 79 | 5 | 1 | 12 |
| Balmaclellan | 9 | 0 | 41 | 23 | 21 | 0 | 14 | 0 | 31 | 3 | 0 | 26 |
| Balmaghie | 16 | 0 | 99 | 40 | 19 | 2 | 4 | 0 | 46 | 0 | 0 | 21 |
| Buittle | 29 | 0 | 110 | 53 | 26 | 3 | 10 | 0 | 77 | 4 | 0 | 54 |
| Carsphairn | 24 | 0 | 64 | 11 | 14 | 10 | 9 | 0 | 67 | 6 | 0 | 18 |
| Crossmichael | 25 | 0 | 82 | 47 | 12 | 2 | 12 | 0 | 65 | 0 | 0 | 56 |
| Dalry | 13 | 1 | 67 | 32 | 33 | 4 | 15 | 0 | 51 | 2 | 0 | 49 |
| Dundrennan | 4 | 2 | 20 | 3 | 3 | 4 | 1 | 0 | 13 | 3 | 2 | 7 |
| Dunrod+Galtway | 3 | 1 | 35 | 12 | 12 | 6 | 4 | 0 | 24 | 1 | 0 | 11 |
| Gelston+Kelton | 63 | 0 | 173 | 107 | 24 | 3 | 15 | 0 | 152 | 4 | 0 | 111 |
| Girthon | 16 | 0 | 79 | 22 | 29 | 3 | 4 | 0 | 54 | 0 | 1 | 14 |
| Kells | 10 | 0 | 40 | 6 | 21 | 1 | 5 | 0 | 35 | 8 | 2 | 13 |
| Kirkandrews | 11 | 0 | 51 | 11 | 29 | 1 | 2 | 0 | 22 | 0 | 0 | 12 |
| Kirkbean | 35 | 0 | 103 | 53 | 17 | 9 | 28 | 0 | 65 | 4 | 0 | 74 |
| Kirkcormack | 2 | 0 | 9 | 5 | 4 | 0 | 1 | 0 | 6 | 0 | 0 | 5 |
| Kirkcudbright | 9 | 1 | 97 | 1 | 22 | 4 | 18 | 0 | 27 | 6 | 1 | 24 |

TABLE 4
The occurrence of different styles at each site by county (adjacent sites with small numbers of inscriptions have been pooled) (cont)

| | <i>Gothic</i> | <i>Versal</i> | <i>Roman</i> | <i>Italic</i> | <i>Script</i> | <i>Sans</i> | <i>Block</i> | <i>Other</i> | <i>Caps</i> | <i>Ligs</i> | <i>Ht_Less</i> | <i>Thick</i> |
|--------------------------|---------------|---------------|--------------|---------------|---------------|-------------|--------------|--------------|-------------|-------------|----------------|--------------|
| Kirkunzeon | 13 | 0 | 64 | 40 | 14 | 3 | 10 | 0 | 50 | 0 | 0 | 28 |
| Kirknabreck (Creetown) | 9 | 0 | 36 | 12 | 1 | 17 | 1 | 0 | 48 | 0 | 0 | 13 |
| Kirknabreck + Kirkdale | 14 | 0 | 70 | 26 | 19 | 6 | 5 | 0 | 30 | 0 | 0 | 10 |
| Kirkpatrick Durham | 36 | 0 | 110 | 57 | 18 | 15 | 12 | 0 | 84 | 1 | 0 | 38 |
| Kirkpatrick Irongray | 13 | 0 | 109 | 39 | 11 | 2 | 4 | 0 | 53 | 0 | 0 | 25 |
| Lochrutton | 8 | 0 | 80 | 38 | 10 | 9 | 2 | 0 | 45 | 0 | 0 | 16 |
| Mingaff | 16 | 0 | 100 | 21 | 41 | 28 | 14 | 0 | 73 | 2 | 1 | 44 |
| Parton | 5 | 0 | 39 | 24 | 16 | 0 | 2 | 0 | 27 | 3 | 0 | 16 |
| Rerrick | 18 | 0 | 83 | 42 | 19 | 6 | 14 | 0 | 70 | 4 | 0 | 35 |
| Senwick + Borgue | 26 | 1 | 92 | 40 | 21 | 12 | 28 | 0 | 90 | 2 | 1 | 59 |
| Southwick + Colvend | 27 | 0 | 108 | 57 | 157 | 7 | 23 | 0 | 80 | 4 | 0 | 47 |
| Stell | 3 | 0 | 38 | 12 | 14 | 1 | 6 | 0 | 26 | 0 | 0 | 16 |
| Sweetheart | 9 | 1 | 76 | 34 | 7 | 3 | 5 | 0 | 54 | 2 | 6 | 10 |
| Terregles + Linccluden* | 26 | 0 | 97 | 60 | 6 | 6 | 28 | 0 | 75 | 0 | 0 | 33 |
| Tongland | 18 | 0 | 65 | 23 | 16 | 6 | 5 | 0 | 42 | 0 | 0 | 17 |
| Troqueer | 44 | 0 | 178 | 81 | 16 | 22 | 32 | 0 | 120 | 1 | 0 | 104 |
| Twynholm | 17 | 0 | 61 | 24 | 19 | 6 | 8 | 0 | 57 | 0 | 0 | 27 |
| Urr | 35 | 0 | 97 | 46 | 21 | 9 | 16 | 0 | 66 | 3 | 0 | 59 |
| Wigtownshire | | | | | | | | | | | | |
| Clachan of Penninghame | 20 | 0 | 52 | 11 | 24 | 7 | 1 | 0 | 25 | 2 | 0 | 0 |
| Glasserton | 21 | 0 | 47 | 16 | 19 | 7 | 4 | 1 | 52 | 0 | 0 | 18 |
| Glenluce + New Luce | 23 | 0 | 60 | 18 | 25 | 13 | 8 | 0 | 52 | 1 | 0 | 23 |
| Kirkcolum + Leswalt | 20 | 1 | 63 | 20 | 25 | 20 | 9 | 0 | 61 | 0 | 0 | 23 |
| Kirkcowan | 3 | 0 | 9 | 2 | 5 | 3 | 1 | 0 | 8 | 1 | 0 | 4 |
| Kirkmaiden (Drummore) | 38 | 0 | 81 | 35 | 37 | 10 | 12 | 0 | 89 | 2 | 0 | 26 |
| Kirkmaiden (Monreith) | 5 | 0 | 10 | 1 | 5 | 0 | 1 | 0 | 11 | 0 | 0 | 3 |
| Lochinch | 26 | 0 | 98 | 34 | 38 | 13 | 11 | 0 | 68 | 3 | 0 | 18 |
| Mochrum | 44 | 0 | 63 | 7 | 20 | 7 | 8 | 0 | 67 | 2 | 0 | 37 |
| Newton Stewart | 29 | 1 | 69 | 21 | 8 | 13 | 13 | 0 | 59 | 0 | 0 | 27 |
| Portpatrick | 29 | 0 | 122 | 24 | 17 | 6 | 14 | 0 | 74 | 2 | 0 | 26 |
| Sorbie | 40 | 0 | 66 | 19 | 24 | 4 | 18 | 1 | 60 | 0 | 0 | 23 |
| St Kennera | 22 | 0 | 53 | 14 | 13 | 13 | 3 | 1 | 50 | 0 | 0 | 20 |
| Stoneykirk + Kirkmadrine | 26 | 0 | 96 | 33 | 25 | 12 | 12 | 0 | 62 | 0 | 1 | 27 |
| Stranraer (all sites) | 18 | 0 | 44 | 7 | 14 | 12 | 3 | 0 | 37 | 2 | 0 | 11 |
| Whithorn | 33 | 0 | 90 | 22 | 31 | 18 | 16 | 0 | 105 | 1 | 1 | 34 |
| Wigtown | 29 | 3 | 116 | 17 | 24 | 25 | 9 | 0 | 77 | 0 | 5 | 54 |

* Dumfriesshire

frequency of roman and italic lettering eastwards but the relative frequency differences are small. Block lettering has a similar distribution but is uncommon in southern Dumfriesshire. Script styles have a curious distribution: in the east of the region it is common in some places and rare in others, even when these are adjacent. Elsewhere, the frequency of its occurrence has an even distribution. The group of lettering styles classified as 'other' has been used far more in southern Wigtownshire and northern Dumfriesshire than elsewhere. Sans serif forms show a dramatic increase in frequency in Wigtownshire compared with the rest of the region. Of the other attributes recorded, four show a distinct pattern of geographical variation in frequency. Least marked are inscriptions entirely in capitals. These are somewhat more frequent in Dumfriesshire, southern Wigtownshire and the south-west of the Stewartry. Lettering analogous to the typographic variant 'bold', and referred to here as 'thick', increases in abundance to the east of the region. There is a marked increase in the number of burial sites in the eastern half of the region where the inscriptions are in a letterform where the height is less than the width, but in other sites there the form is relatively uncommon.

Probably the most dramatic geographical trend is that of the frequency of the use of ligatures. Ligatures are more common in the eastern part of the three counties than in the west, but the most marked change is in southern Dumfriesshire where they were used far more often in inscriptions than elsewhere. The commonest ligatures in Dumfries and Galloway are HE and THE. Some headstones exhibit exceptional creativity in the way letters are merged into a single character. One such example is a magnificent inscription in Annan Old Cemetery in archaic roman capitals in which numerous letters are ligatured: in the word NOVEMBER, VE are joined, as well as a very unusual ligature MB where a capital P has been cut as part of the first vertical of the M. It is possible that the mason began to cut the

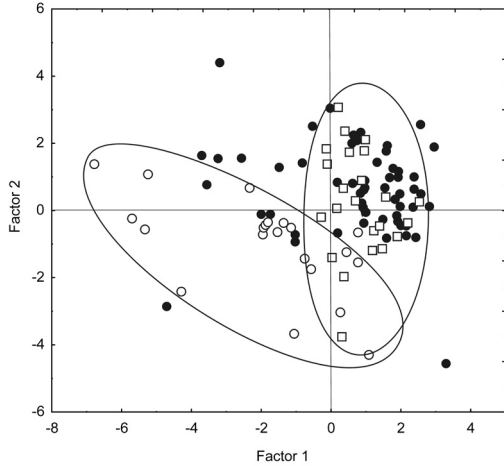
letter B but, on recognizing his mistake, left the additional shape.

Wigtownshire and a small part of the south-western Stewartry are noted for the abundance of headstones with inscriptions that mix lettering in roman, gothic and either script or italic.

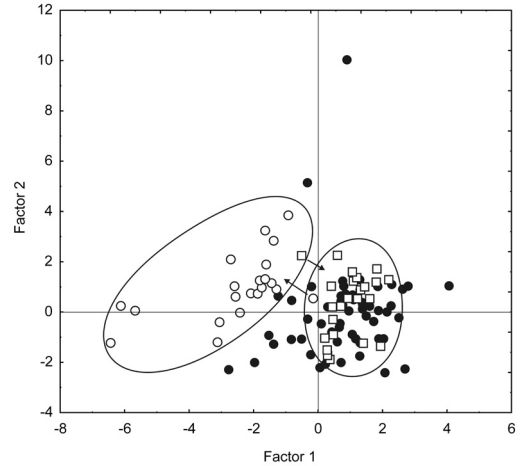
INSCRIPTIONAL GROUPINGS

One of the main aims of this regional study was to investigate further the interesting geographical groupings based on inscriptional attributes that had been identified through multivariate statistical analysis. The validity and accuracy of the sample-based conclusions was tested using the entire dataset from the comprehensive survey. Perhaps not surprisingly, the results of the analysis of such a large dataset were far more complex than those obtained using a much smaller sample. While some of the output of the analysis was perplexing, and in some cases ambiguous, in general terms it confirmed the earlier conclusions. Although the results were not nearly so clear-cut, detailed study of the ordinations revealed yet more on the distribution of graveyard profiles in the region. Based on the earlier study (Thomson 2001a), the sites were coded as belonging to one of three areas. South-east Dumfriesshire, referred to here as 'south-east', is the area east of a line running from Cross Hill on the Dumfriesshire/Selkirkshire border to the west of Cummertrees on the Solway Firth. West Stewartry and Wigtownshire (referred to here as 'west') is west of a line from Merrick in the north of the Stewartry to east of Kirkcudbright. The third area lies between these two regions (referred to here as 'central').

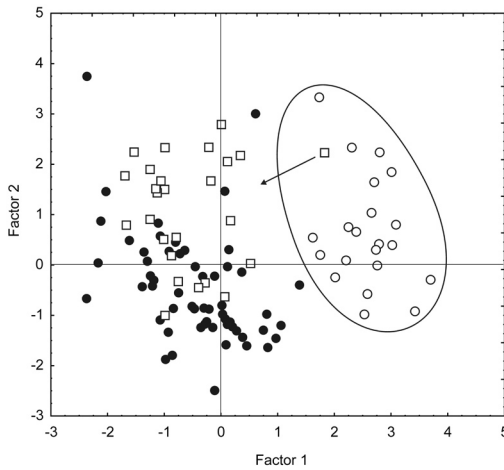
The data were categorized into two date classes: all dates and 1761–1855. These were further subdivided into data utilizing all attribute variables and data including style variables only (ie versal, roman, gothic, script, italic, block, sans serif and other). The greatest contribution of any variable to the differentiation of sites was by gothic, followed by ligatures, mixed styles and script.



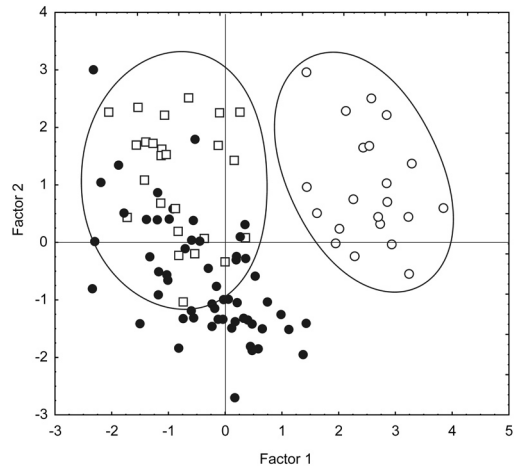
ILLUS 3 Plot of factor loadings from principal components analysis 1241–1855, using all variables. The envelopes enclose burial sites in the eastern area (open circles) and the western area (open squares)



ILLUS 4 Plot of factor loading from principal components analysis 1761–1855, using all variables. The envelopes enclose burial sites in the eastern area (open circles) and the western area (open squares)



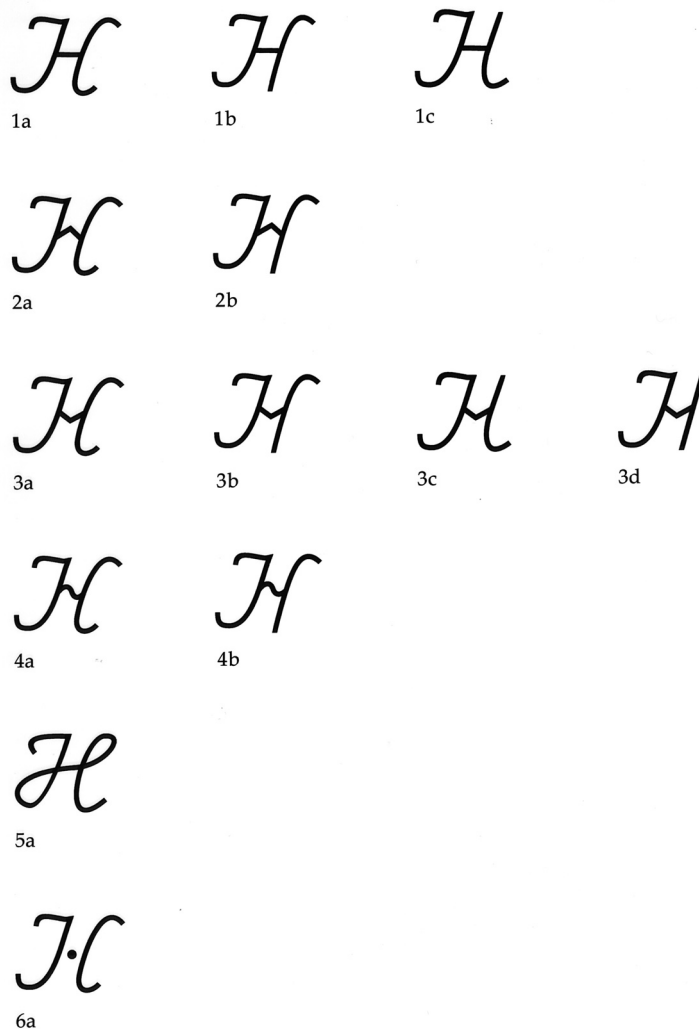
ILLUS 5 Plot of factor loadings from principal components analysis 1241–1855, using style variables only. The envelope encloses burial sites in the eastern area (open circles) and the western area (open squares)



ILLUS 6 Plot of factor loading from principal components analysis 1761–1855, using style variables only. The envelopes enclose burial sites in the eastern area (open circles) and the western area (open squares)

It can be seen that the PCA classification plots (illus 3–6) do not suggest that inscriptions on tombstones in the central part of the region are consistently distinct from those in the west. However, they do show that the south-eastern group is distinct or very distinct from those in

the other two areas. This differentiation is more marked in the 1761–1885 period and when only inscriptional lettering styles are included in the datasets. Indeed, the most distinct clustering is when the date subdivision and lettering styles only are considered, in which case there is a



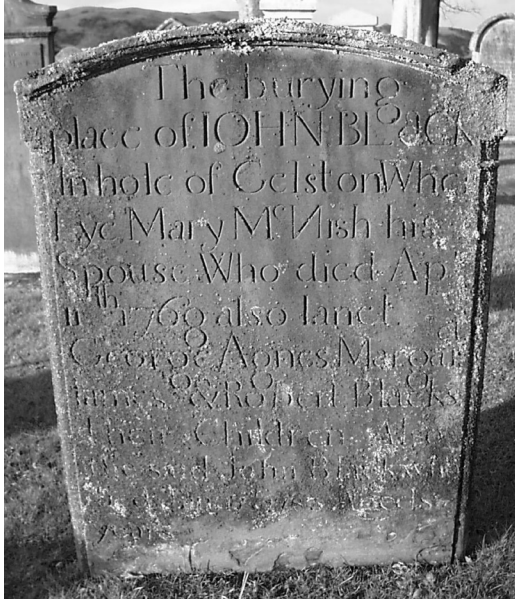
ILLUS 7 The various forms of script initial H found on tombstones in Dumfries and Galloway with their style identifiers

clear separation of the south-eastern group and some evidence of differentiation between the western and central site profiles.

SCRIPT INITIALS

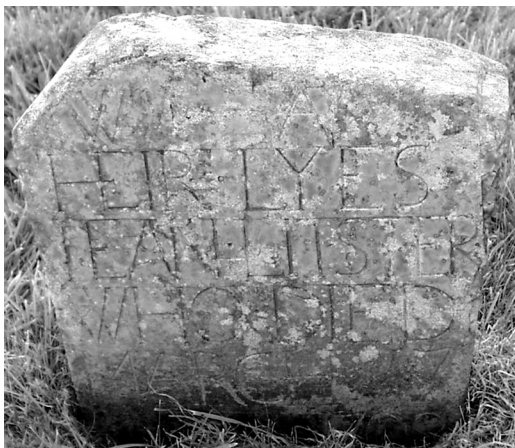
Chater (1976; 1977) and Mytum (2004) noted the use of a script or other decorative initials at the start of an inscription and sometimes at the beginning of each entry on gravestones. This

is a common feature on headstones and other memorials in Ireland, Wales and some parts of England, including the Vale of Belvoir (Bartram 1978). However, it is relatively rare in Scotland, the ligatured HE being much preferred. Chater studied the variation of the form of the script capital H in Cardiganshire, particularly noting the different versions of the crossbar that can take the form of a straight line, a V-shape, an inverted V-shape, a wave form, or a lozenge.



ILLUS 8 Inscription on a headstone at Buittle, the Stewartry in a lightweight roman letterform and with s and t of a non-standard form (1768)

An analysis was made of the H used as a script initial letter in inscriptions and each form given an identifier (illus 7). In Dumfries and Galloway, only 33 inscriptions incorporated the decorative initial script H. The earliest use is at Kells on a headstone dated 1699. This was of form 3c. The



ILLUS 9 A lightweight and elegant roman on a small headstone dated 1702 at Moffat, Dumfriesshire

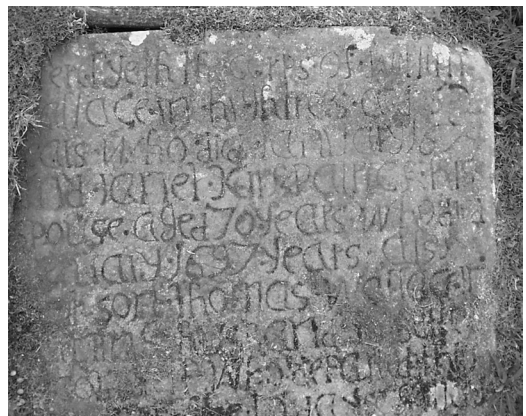


ILLUS 10 A very unusual script form on a headstone at Carruthers, Dumfriesshire

commonest form is 4a, followed by 1a, 5a, 1b and 2a. The least common type is form 6a.

OTHER OBSERVATIONS

Some inscriptions are unique in their interpretation of the standard lettering style. At Buittle, for example (illus 8), an inscription of 1768 has the roman lettering boldly cut but light in weight with both s and t of a non-standard form. Another very lightweight and rather



ILLUS 11 A very early grave slab at Closeburn, Dumfriesshire in an extremely primitive script of an early date, with no distinction between capitals and lower case (1697)



ILLUS 12 The crude mixing of roman and script on an undated, naïve headstone at Kirkpatrick Durham, the Stewartry

elegant roman is used on a small headstone dated 1702 at Moffat (illus 9). Similarly, script lettering appears in a very unusual form on a headstone at Carruthers (illus 10). Here some of the characters are very curious indeed, notably the A, F, k, & and W (1753). On a very early grave slab at Closeburn (illus 11) there is an extremely primitive script of an early date (1697), with no distinction between capitals and lower case.

The crude mixing of roman and script can be seen on an undated, naïve headstone at Kirkpatrick Durham (illus 12), as well as on an undated stone at Twynholm (illus 13). A very formal memorial at Glenluce (illus 14) mixes roman with script throughout the inscription, even within words. The roman has primitive features (v line A, short M, 2 V W etc) and the



ILLUS 13 A mixed roman and script inscription on an undated stone at Twynholm, the Stewartry

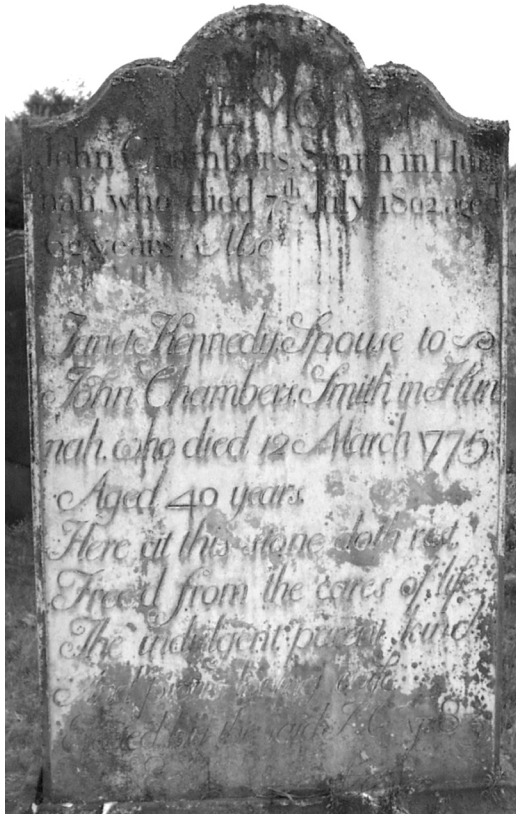


ILLUS 14 A very formal memorial at Glenluce, Wigtownshire, mixing roman with script throughout the inscription, even within words

script is of an early form although the date is 1793. Another Buittle headstone (illus 15) has a very formal inscription in gothic capitals and lower case with roman capitals and lower case (1778) but with the early features of an A with the v-shaped crossbar and W formed of two Vs.



ILLUS 15 A very formal inscription at Buittle, the Stewartry, in gothic capitals and lower case with roman capitals and lower case. Early features can be seen in the A, with the v-shaped crossbar and W formed of two Vs (1778)



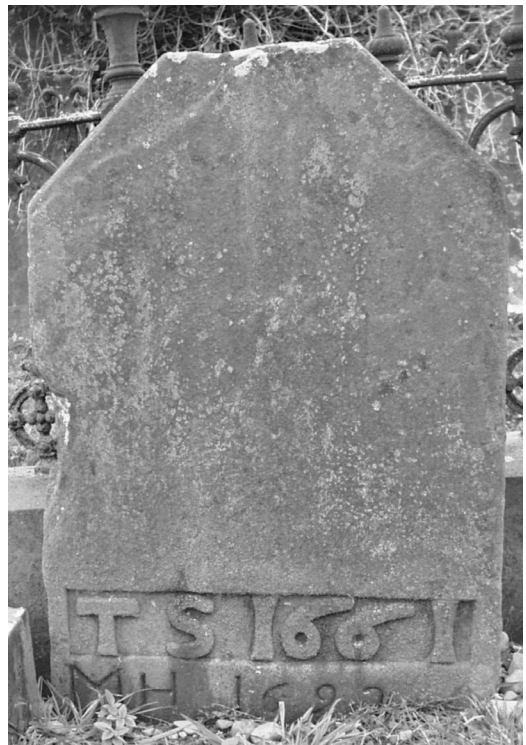
ILLUS 16 The back-sloping small numeral 1 in dates appears to be characteristic of southern Dumfriesshire. This inscription is on a headstone at Cummertrees, Dumfriesshire

The use of a back-sloping, small numeral 1 in dates appears to be characteristic of southern Dumfriesshire. It occurs in several inscriptions at Dryfesdale and Cummertrees (illus 16) during the last quarter of the 18th century. It is rare but not unknown in other parts of Scotland, although the numeral is usually full size, as in a memorial at Carstairs, Lanarkshire, dated 1786.

While horizontally mirrored letters are common, this treatment of numerals is much less so. A unique vertically mirrored 4 was found at Dalgarnock, appearing twice in the inscription (1759). There are several misspellings on this grave slab including 'woh' for 'who' (illus 17).



ILLUS 17 A unique vertically flipped 4 at Dalgarnock, the Stewartry. Note the misspellings on this grave slab including 'woh' for 'who' (1759)



ILLUS 18 A partially buried memorial at Dunscore Old Kirkyard, the Stewartry, with two short initial entries in different styles located at the bottom of the stone



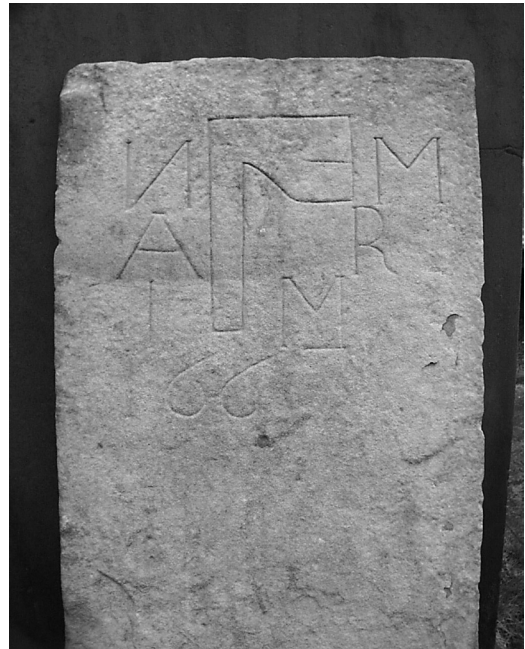
ILLUS 19 An undated memorial with the words MEMENTO MORI inscribed around one of the several sculpted death symbols

Some interesting applications of layout and design on tombstone memorials are worth noting here. A partially buried memorial at Dunscore Old (illus 18) has two short initial entries in different styles located at the bottom of the stone: one in primitive archaic raised roman



ILLUS 20 The deceased parents' issue are listed in columnar fashion on this memorial of an early date from Garrel, the Stewartry

dated 1661 and another in an almost sans-serif inscribed form of 1692. Another undated memorial (illus 19), which was probably originally a grave slab but is now erected vertically, has the words MEMENTO MORI inscribed around one of several sculpted death symbols. This slab has probably been reused; several symbols and letters have been carved on



ILLUS 21 A superbly designed grave slab at St Brides Kirkyard, Sanquhar, Dumfriesshire (1667)

what would have been the underside (WH), but these are now almost illegible. Headstones with children listed in columnar fashion are rare in south-west Scotland. One such memorial of an early date was found at Garrel (illus 20). Part of the list unfortunately has been defaced but the layout with large, rather crude script and a small script form used for the issue is unusual. A superb sense of design can be seen on a grave slab at St Brides Kirkyard, Sanquhar (illus 21). This magnificent stone, dated 1667, has the initial letters NM/AR/IM beautifully arranged

around a flesher's axe. The N is horizontally mirrored.

DISCUSSION

The geographical pattern of burial sites with inscriptions that include ligatures is remarkable. Similar distinct 'hotspots' for their use are being identified in New England in a current study by the author. To some extent the mapping of the distribution of attributes gives us an explanation for the statistical clustering produced by PCA. The frequencies of several lettering attributes have a clear spatial configuration in the region, often corresponding with the three-area statistical model. However, it does not take us any closer to an explanation of why there should be such divisions.

Perhaps the three areas are akin to the occurrence of local accents. In most of Scotland we all speak the same language but with both a regional and local dialect and inflection. We do not consciously learn our accent in our childhood but are unknowingly influenced by what we hear around us from our family and other contacts. The degree to which our accent is similar to others in the area where we live depends a great deal on the extent to which we travel and spend time in areas where the accents are different. The majority of masons who cut inscriptions on graveyard memorials up until at least the beginning of the 19th century, arguably with the exception of those who fashioned the pre-Reformation monuments and relatively rare formal memorials, probably travelled little and would not have been exposed to influences other than those around them. There is no evidence whatsoever of the dispersal of masons' skill or their memorials such as has been found in Leicestershire and Nottinghamshire (Barley 1948), Wicklow, Wexford and Carlow (Longfield 1943), or New England (Forbes 1927). They would have followed local traditions, but not by slavishly copying their peers. The creativity

demonstrated in Scottish tombstone memorial inscriptions testifies that. More likely, they would have subconsciously engaged the local culture of the time and place.

The more distinct grouping of burial sites in the later period (1761–1855) may suggest an evolutionary development of a more fully developed local culture. This was a display of regional personality within which we can identify individual creativity – and even eccentricity. The inscriptions represent folk art that was to be destroyed by Victorian taste, developing technologies and the use of lettering samples and copybooks by masons.

ACKNOWLEDGEMENTS

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