

APPENDIX G

CORPSCON CONVERSION
NAD₈₃ - U.S. SURVEY FEET TO
NAD₂₇ - METERS
AND
NAVD₈₈ - U.S. SURVEY FEET TO
NAVD₂₉ - METERS

2003
GEODETIC CONTROL RESTORATION

of

JEFFERSON COUNTY, KENTUCKY
JUNE 2003

Fuller, Mossbarger, Scott & May
1901 Nelson Miller Parkway
Louisville, Kentucky 40223-2177

Jacobi, Toombs and Lanz, Inc.
401 West Main Street, Suite 600
Louisville, Kentucky 40202



Original Horizontal Coordinates:

NAD 83, Kentucky North - 1601, U.S. Survey Feet

Translated Horizontal Coordinates:

NAD 27, Kentucky North - 1601, U.S. Survey Feet

Input Vertical Coordinates: NAVD 88, U.S. Survey Feet

Output Vertical Coordinates: NGVD 29, U.S. Survey Feet

| Name | Input | Output |
|-----------------------|-------------------------|-----------------|
| GOSHEN RM1 | 333339.96683 N | 333308.98710 N |
| | 1263875.18916 E | 1623437.42211 E |
| Elevation | 714.80200 | 715.32 |
| Convergence | -00 49 02.85066 | -00 49 02.93863 |
| Scale Factor | 0.999962612 | 0.999962616 |
| Combined Factor | 0.999928423 | 0.999928427 |
| Grid Shift(US ft), | Delta North = -30.980 | |
| | Delta East = 359562.233 | |
| Datum Shift(m), | Delta Lat. = 7.330 | |
| | Delta Lon. = -3.429 | |
| LOUISVILLE SOUTH BASE | 240989.43617 N | 240959.09888 N |
| | 1185268.16113 E | 1544829.05527 E |
| Elevation | 470.19900 | 470.66 |
| Convergence | -00 59 04.68868 | -00 59 04.77118 |
| Scale Factor | 0.999977225 | 0.999977234 |
| Combined Factor | 0.999954735 | 0.999954744 |
| Grid Shift(US ft), | Delta North = -30.337 | |
| | Delta East = 359560.894 | |
| Datum Shift(m), | Delta Lat. = 7.750 | |
| | Delta Lon. = -3.226 | |
| GPS86-34 | 245182.15102 N | 245152.58070 N |
| | 1277152.28791 E | 1636713.84833 E |
| Elevation | 692.77700 | 693.28 |
| Convergence | -00 47 09.64573 | -00 47 09.74175 |
| Scale Factor | 0.999975786 | 0.999975794 |
| Combined Factor | 0.999942650 | 0.999942658 |
| Grid Shift(US ft), | Delta North = -29.570 | |
| | Delta East = 359561.560 | |
| Datum Shift(m), | Delta Lat. = 7.465 | |
| | Delta Lon. = -3.755 | |
| STA008-2001 | 272736.42476 N | 272704.98004 N |
| | 1243753.05662 E | 1603314.79942 E |
| Elevation | 512.96100 | 513.46 |
| Convergence | -00 51 32.98977 | -00 51 33.07739 |
| Scale Factor | 0.999969851 | 0.999969858 |
| Combined Factor | 0.999945316 | 0.999945323 |
| Grid Shift(US ft), | Delta North = -31.445 | |
| | Delta East = 359561.743 | |
| Datum Shift(m), | Delta Lat. = 7.865 | |
| | Delta Lon. = -3.423 | |

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Original Horizontal Coordinates:

NAD 83, Kentucky North - 1601, U.S. Survey Feet

Translated Horizontal Coordinates:

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NAD 27, Kentucky North - 1601, U.S. Survey Feet
 Input Vertical Coordinates: NAVD 88, U.S. Survey Feet
 Output Vertical Coordinates: NGVD 29, U.S. Survey Feet

| Name | Input | Output |
|--------------------|--------------------------------------------------|-----------------------------------|
| BU07-01 | 230607.23644 N 1172558.05512 E | 230577.05733 N 1532118.78319 E |
| Elevation | 447.44700 | 447.90 |
| Convergence | -01 00 42.22685 | -01 00 42.30809 |
| Scale Factor | 0.999980140 | 0.999980149 |
| Combined Factor | 0.999958738 | 0.999958747 |
| Grid Shift(US ft), | Delta North = -30.179 Delta East = 359560.728 | |
| Datum Shift(m), | Delta Lat. = 7.773 Delta Lon. = -3.178 | |
| B008-01 | 243906.71611 N 1173498.37615 E | 243876.28508 N 1533059.22765 E |
| Elevation | 445.12300 | 445.58 |
| Convergence | -01 00 36.73335 | -01 00 36.81377 |
| Scale Factor | 0.999976520 | 0.999976529 |
| Combined Factor | 0.999955230 | 0.999955239 |
| Grid Shift(US ft), | Delta North = -30.431 Delta East = 359560.851 | |
| Datum Shift(m), | Delta Lat. = 7.763 Delta Lon. = -3.144 | |
| GPS86-37 RESET | 234960.69958 N 1255897.53297 E | 234931.46568 N 1615458.73604 E |
| Elevation | 662.47600 | 662.96 |
| Convergence | -00 49 54.03126 | -00 49 54.12578 |
| Scale Factor | 0.999978542 | 0.999978551 |
| Combined Factor | 0.999946856 | 0.999946865 |
| Grid Shift(US ft), | Delta North = -29.234 Delta East = 359561.203 | |
| Datum Shift(m), | Delta Lat. = 7.435 Delta Lon. = -3.698 | |
| AN40-01 RESET | 296060.47946 N 1271616.58120 E | 296029.07227 N 1631178.83776 E |
| Elevation | 703.97200 | 704.48 |
| Convergence | -00 47 58.29052 | -00 47 58.37982 |
| Scale Factor | 0.999966024 | 0.999966030 |
| Combined Factor | 0.999932353 | 0.999932359 |
| Grid Shift(US ft), | Delta North = -31.407 Delta East = 359562.257 | |
| Datum Shift(m), | Delta Lat. = 7.695 Delta Lon. = -3.486 | |

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| Name | Input | Output |
|------|-------|--------|
|------|-------|--------|

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| | | |
|--------------------|-------------------------|-----------------|
| GPS86-43 RESET | 278083.39985 N | 278051.84359 N |
| | 1206849.46238 E | 1566410.72539 E |
| Elevation | 460.49600 | 460.98 |
| Convergence | -00 56 21.38012 | -00 56 21.46395 |
| Scale Factor | 0.999968979 | 0.999968986 |
| Combined Factor | 0.999946953 | 0.999946960 |
| Grid Shift(US ft), | Delta North = -31.556 | |
| | Delta East = 359561.263 | |
| Datum Shift(m), | Delta Lat. = 7.875 | |
| | Delta Lon. = -3.274 | |