Iowa LiDAR Data Summary by Gustav Sexauer

**Numbering**

-Area numbers based on the “Trip Report” pages on cohp.org

-Letters denote multiple points within the same contour

-“\*” Indicates areas not included on cohp.org, but were found either to be the highest point, above the listed contour elevation, or significantly high in comparison to the listed points.

**Data Accuracy and Metadata**

-Datum: WGS84 EPSG: 4326

-Vertical Accuracy is reported at 0.6069554’ (18.5cm) on bare ground and at 1.21391’ (37cm) where there is vegetation.

-LiDAR point spacing is 1.4m average on this dataset which have been previously processed to 2m x 2m cells.

-Data comes from DEM downloads from the Iowa LiDAR Consortium which consists of the Iowa Department of Agriculture and Land Stewardship, the Iowa Department of Natural Resources, the Iowa Department of Transportation, the USDA Natural Resources Conservation Service, and the US Geological Survey and can be found at: <http://www.geotree.uni.edu/lidar/>

**Methodology and Description of Results**

-This project was completed with QGIS Brighton. The projection system was set to WGS84 EPSG: 4326 with the geographic coordinate system. Coordinates were obtained from the center of 2m cells, and reported to 5 decimal places using the decimal degree format. Elevation values were initially in meters but were converted to feet, always using front end rounding to keep from listing a point higher that it actually reaches. Elevations are listed to the hundredth of a foot.

-In QGIS, the DEM raster was loaded using all actual values, then set to show only land above the highest contour. This illuminated the contenders, or what remained of them. If no areas reached the highest contour elevation, then the cutoff was lowered to include the highest and any within the accuracy margin of 74cm (~2’5.1”). Each area was then inspected and the highest cell recorded for elevation value and location.

-Green highlights the highest presumed-to-be-natural point, runners up within 37cm (~1’2.5”), and other points within and above this range. The highest presumed-to-be-natural point will be labeled as the winner.

-Yellow highlights runners up within 74cm (~2’5.1”).

-Pink highlights areas that are outside of the range, but appeared to contend in the field based on the experiences of Josh Carlson.

-Only areas within an indeterminate buffer of cohp.org listed cohp locations were analyzed, rather than entire county DEMs. Therefore there could be higher ground outlying known points, although it is unlikely.

-Comments next to elevations give a clue as to where the peak pixel was found based on aerial imagery and the appearance of the raw DEM. To aide in analysis, here is a list of descriptions of some common words used in this report:

 Field: gradual slopes on a smooth landscape that has been tilled rise to the highest pixel

Fence line: at the edge of a field or parcel where periodic pixels jumps possible fence post elevation returns

Field edge: the edge of one or more fields; these often had a higher elevation either due to vegetation error or possibly because the untiled ground has not eroded as fast. Also, rocks may be piled along field edges by farmers which could affect elevation returns.

Roadside berm: this could either be natural ground that was cut away when the road was constructed/improved or an artificial pile caused by extra dirt during road construction

Roadbed: the road surface, obvious unnatural elevation, however natural ground could be not far underfoot depending on the road

County line: indicates that the pixel potentially has a higher neighbor, but the county line isolates it as the highest

House: often a built up slab that has a higher return elevation than surrounding pixels. Houses are artificial and often have dirt raised around them during construction.

Trees/Tree Line: the high pixel was in the vicinity of trees on the aerial and the area showed pixel spikes which may be returns of trunk elevation and not the ground. Note that trees may have soil rise up the bark higher than surrounding soil which could be natural.

Building/silo: Similar to a house in that an artificial slab and the building cause an elevation return that is artificial.

Pile: An area that rises up abruptly and is in a (usually) farm setting where an artificial pile may be expected. A pile is most likely made of dirt or rock but is not natural.

Prairie: Uncultivated grassland.

DISCLAIMER: Note that these notations are meant to advise the highpointer in finding the highest natural ground. While some points will be labeled the “winner” of their county, they may also be artificial and so it is the reader’s responsibility to determine which point(s) serves or potentially serves their purpose as being a location worth visiting to claim the highpoint.

-Highpoint analysis was completed by Gustav Sexauer September 2015.

**Adair County: Eight Areas 1460’+**

Area 1a: 1481.30’ pile -artificial

N41.49613 W94.63965

Area 1b: 1469.12’ building 1468’ under and bordering building

N41.49659 W94.63894

Area 2a: 1475.03’ backyard with over 7’ jump -artificial

N41.50385 W94.64641

Area 2b: 1473.03’

N41.50252 W94.64324 front step -artificial

Area 3: 1459.31’ field

N41.48597 W94.63702

Area 4: 1463.48’ fence line/roadside berm -artificial

N41.49277 W94.63738

Area 5: Slopes up to Area 7

Area 6a: 1460.39’ field

N41.50042 W94.65828

Area 6b: 1460.50’ fence line

N41.49994 W94.65779

Area 7: 1476.71’ fence line -winner

N41.50010 W94.69129

Area 8: 1464.76’ roadside berm

N41.49650 W94.68966

**Adams County: Two Areas 1340’+**

Area 1a: 1345.22’ ground around a cinder block-walled pit -winner

N41.13048 W94.79257

Area 2: 1339.66’

N41.13521 W94.79194

**Allamakee County: Iron Mine Hill 1320’+**

Iron Mine Hill a: 1342.44’ -winner (tie)

N43.30177 W91.46187

Iron Mine Hill b: 1342.44’ -winner (tie)

N43.30207 W91.46238

**Appanoose County: Thirty One Areas 1080’+**

Area 1: Below 1080’

Area 2: Below 1080’

Area 3: Below 1080’

Area 4: Below 1080’

Area 5: Below 1080’

Area 6: Below 1080’

Area 7a: 1081.74 field -winner

N40.59218 W93.068237

Area 7b: 1083.75’ field maybe a pile -artificial?

N40.58483 W93.07161

Area 7c: 1082.88’ roadbed -artificial

N40.60882 W93.07381

Area 8: Below 1080’

Area 9: Below 1080’

Area 10: Below 1080’

Area 11: Below 1080’

Area 12: Below 1080’

Area 13: Below 1080’

Area 14: Below 1080’

Area 15: Below 1080’

Area 16: 1080.84’ farm yard -second runner up

N40.59181 W93.07927

Area 17: Below 1080’

Area 18: Below 1080’

Area 19: Below 1080’

Area 20: Below 1080’

Area 21: Below 1080’

Area 22: Below 1080’

Area 23: Below 1080’

Area 24: 1081.58’ -first runner up

N40.60309 W93.04494

Area 25: Below 1080’

Area 26: Below 1080’

Area 27: Below 1080’

Area 28: 1080.39’ roadbed

N40.60889 W93.05605

Area 29: Below 1080’

Area 30: Below 1080’

Area 31: Below 1080’

**Audubon County: Eight Areas 1540’+**

Area 1: 1531.73’

N41.69382 W95.05843

Area 2: 1532.85’ on fence line

N41.69482 W95.06318

Area 3: 1532.66’

N41.69451 W95.05021

Area 4: 1537.02’ at field intersection, or lower but other high ground 100m SE -runner up

N41.69456 W95.04875

Area 5: 1535.88’

N41.69412 W95.04701

Area 6: 1531.72’

N41.69546 W95.04630

Area 7: 1538.24’ -winner

N41.69185 W95.04182

Area 8: 1534.07’

N41.68994 W95.03695

**Benton County: Three Areas 1050’+**

Area 1: 1052.72’ 90ft south is 2” lower along the path -first runner up

N42.29063 W91.88471

Area 2: 1051.89’ wooded area lacking tree related errors -second runner up

N42.28631 W91.87162

Area 3: 1053.08’ -winner

N42.29520 W91.88578

**Black Hawk County: Six Areas 1030’+**

Area 1: 1028.02’ -first runner up (tie)

N42.33173 W92.50540

Area 2: 1028.02’ - first runner up (tie)

N42.33431 W92.51349

Area 3: 1025.81’

N42.47510 W92.53320

Area 4: 1025.84’

N42.46982 W92.53667

Area 5: 1028.89’ per Carlson, possibly never tilled -winner

N42.45190 W92.51015 fence line

Area 6: 1024.63’ to the west of the northern barn in the pair

N42.63791 W92.22230

**Boone County: Three Areas 1250’+**

Area 1: 1244.37’

N42.18558 W93.89626

Area 2: 1247.22’ prairie grass -winner

N42.18603 W93.89852

Area 3: 1245.06’

N42.18597 W93.89875

**Bremer County: Two Areas 1160’+**

Area 1a: 1171.43’ roadside berm, around 3-4” higher than tilled field per Sexauer -winner

N42.90525 W92.08170

Area 1b: 1172.84’ roadbed/county line -artificial

N42.90521 W92.08158

Area 2a: 1161.04’ roadside berm

N42.89763 W92.08179

Area 2b: 1162.39’ roadbed/county line

N42.89765 W92.08165

**Buchanan County: Twelve Areas 1160’+**

Area 1: Below 1160’

Area 2: Below 1160’

Area 3: Below 1160’

Area 4: 1161.35’ patio

N42.64328 W91.79076

Area 5: 1163.10’

N42.63493 W91.83134

Area 6: Below 1160’

Area 7: Below 1160’

Area 8: 1165.09’ house or 1161’ to 1163' yard around house up to road and fields

N42.61485 W91.81906

Area 9: Below 1160’

Area 10: Below 1160’

Area 11: 1156.78’

N42.57748 W91.68050

Area 12: 1156.56’

N42.57684 W91.68121

**Buena Vista County: Four Areas 1540’+**

Area 1a (with BM): 1547.24’ field

N42.84248 W95.32805

Area 1b (with BM): 1547.26’ roadbed

N42.84237 W95.32883

Area 2: 1549.49’ with a 0.3’ to 0.49’ jump from surrounding pixels -winner

N42.84050 W95.33633

Area 3: 1547.75’ with a 0.98’ jump from surrounding pixels

N42.83960 W95.34128

Area 4: 1541.40’

N42.83979 W95.35003

**Butler County: One Area 1150’+**

Area 1: 1153.34’ in tall grass

N42.86185 W92.88741

**Calhoun County: Three Areas 1270’+**

Area 1: 1270.01’ roadside berm -first runner up

N42.5532 W94.72813

Area 2: 1270.53’ -winner

N42.55559 W94.73235

Area 3: 1269.38’ -second runner up

N42.55704 W94.72934

**Carroll County: Four Areas 1560’+**

Area 1&2a: 1553.20’ field

N41.99374 W95.07657

Area 1&2b: 1554.75’ roadbed

N41.99390 W95.07692

Area 3: 1559.55’ -winner

N41.99244 W95.07347

Area 4: Slopes up to Area 3 with no prominence.

**Cass County: Three Areas 1460’+**

Area 1: 1453.27’

N41.48295 W94.76630

Area 2: 1460.85’

N41.48174 W94.76811

Area 3: 1463.22’ -winner

N41.50401 W94.70541

**Cedar County: One Area 960’+**

Area 1: 959.86’ house

N41.94517 W91.32771

**Cerro Gordo County: Three Areas 1320’+**

Area 1: 1320.42’ -winner

N43.24489 W93.49460

Area 2: Slopes up to Area 1

Area 3: 1319.44’ -runner up

N43.24453 W93.49194

**Cherokee County: One Area 1520’+**

Area 1a: 1520.03’ field edge -winner

N42.86483 W95.38823

Area 1b: 1523.25’ roadbed/county line -artificial

N42.86482 W95.38809

**Chickasaw County: Two Areas 1320’+**

Area 1: Slopes up to field edge (Area 3) higher than near Area 2

Area 2: Slopes up to field edge (Area 3)

\*Area 3: 1317.33’ field edge 190’ ESE of Area 1 -winner

N43.18837 W92.33268

**Clarke County: Twenty Areas 1220’+**

Area 1a: 1227.05’ large boulder per Carlson, rises 4.6’ above a neighbor pixel -?

N41.04318 W93.95696

Area 1b: 1225.65’ roadbed -artificial

N41.04353 W93.95646

Area 1c: 1225.82’ front stoop? This is the highest yard in Murray

N41.04364 W93.95418

Highest natural ground is unclear. Highest general areas in Area 1 are the yard and field closest to the NW corner of the intersection of the railroad and 130th Avenue and the land bounded by the railroad to the south, Sherman Street to the east, 11th Street to the north, and 130th Avenue to the west excluding the farm field and the block south of it in the NW corner. These areas register above 1222.1’.

Area 2: Below 1220’

Area 3: Below 1220’

Area 4: Below 1220’

Area 5: 1221.39’

N41.01165 W93.96333

Area 6: Below 1220’

Area 7: Below 1220’

Area 8: Below 1220’

Area 9: Below 1220’

Area 10: Below 1220’

Area 11: Below 1220’

Area 12: Below 1220’

Area 13: Below 1220’

Area 14: Below 1220’

Area 15: Below 1220’

Area 16: Below 1220’

Area 17: Below 1220’

Area 18: Below 1220’

Area 19a: 1225.65’ roadbed -artificial

N41.04029 W93.95644

Area 19b: 1224.83’ trees? 2.3’ above adjacent fields

N41.02335 W93.96067

Area 19c: 1224.01’

N41.03935 W93.95396

The highest natural ground in Area 19 is uncertain, but the highest general locations include the field north of the high school arena between 130th Avenue and Sherman Street and all adjacent yards (not the arena itself), and the fields north and south of US34 west of 130th Avenue up to ½ mile. These areas all register above 1222.1’.

Area 20: Below 1220’

**Clay County: Two Areas 1480’+**

Area 1: 1481.16’

N43.25413 W95.05971

Area 2: 1483.99’ -winner

N43.25196 W95.05890

**Clayton County: Four Areas 1260’+**

Area 1: 1272.78’ west of the road.

N42.76241 W91.59868

Area 2: 1260.53’

N42.72549 W91.57236

Area 3: 1269.75’ Front steps of the house.

N42.69157 W91.43822

Area 4: 1275.13’ Fence line and tree row south of the house. -winner

N42.69536 W91.43693

**Clinton County: Three Areas 940’+**

Area 1: 956.30’ roadside berm, local claim that DNR verified that this is the cohp -winner

N42.02145 W90.82208

Area 2: 937.30’ field

N42.00481 W90.81224

Area 3: 943.56’ field

N42.00419 W90.80990

**Crawford County: One Area 1560’+**

Area 1: 1555.75’

N42.02547 W95.09679

**Dallas County: Eight Areas 1150’+ and 1140’+**

Area 1: 1154.82’

N41.51852 W94.23603

Area 2: 1157.25’ county line field edge 0.4’ above field one pixel east

N41.52148 W94.24150

Area 3: 1143.56’

N41.54326 W94.23597

Area 4: 1146.71’

N41.50375 W94.23376

Area 5a: 1158.85’ roadside -winner

N41.50376 W94.24140

Area 5b: 1160.71’ roadbed/county line -artificial

N41.50369 W94.24142

Area 6: Below 1140’

Area 7: 1140.28’

N41.63231 W94.27806

Area 8: 1146.06’

N41.49809 W94.21388

**Davis County: Seventeen Areas 1000’+**

Area 1: 995.73’ field

N40.61597 W92.62557

Area 2: 995.94’ tree

N40.61730 W92.62322

Area 3: 996.32’ field

N40.61847 W92.62156

Area 4a: 996.43’ field

N40.61622 W92.62290

Area 4b: 996.71’ tree

N40.61574 W92.62096

Area 5: 994.91’ field

N40.61182 W92.62337

Area 6: 995.88’ field

N40.61017 W92.61983

Area 7: 997.32’ tree, but field under 4” lower to the east -runner up

N40.61027 W92.61853

Area 8: 996.60’ railroad berm

N40.60778 W92.62231

Area 9a: 994.66’ field

N40.60880 W92.62325

Area 9b: 997.48’ railroad berm -runner up

N40.60885 W92.62296

Area 10: 996.00’ railroad berm

N40.60823 W92.62273

Area 11a: 996.55’ fence line

N40.60376 W92.61845

Area 11b: 998.12’ tree -winner

N40.60260 W92.61378

Area 12: 995.53’

N40.60135 W92.61730

Area 13: 994.56’

N40.60259 W92.61049

Area 14: Slopes up to Area 13

Area 15: See Area 16

Area 16: 993.94’ field edge between Area 15 and 16

N40.60588 W92.60835

Area 17: 995.36’

N40.59682 W92.60965

\*Area 18a: 996.28’ field south of Area 1

N40.61423 W92.62551

\*Area 18b: 997.53’ roadbed -runner up

 N40.61313 W92.62653

**Decatur County: One area 1200’+**

Area 1: 1199.92’

N40.84519 W94.00832

**Delaware County: One Area 1210’+**

Area 1: 1211.74’

N42.60493 W91.13960

**Des Moines County: One Area 840’+**

Area 1a: 838.22’ pile?

N41.05647 W91.28926

Area 1b: 837.99’ field -runner up

N41.05666 W91.29071

\*Area 2: 838.32’ house -winner

N41.05329 W91.29460

**Dickinson County: One Area 1570’+**

Area 1: 1574.72’ prairie

N43.41364 W95.01454

**Dubuque County: Four Areas 1250’+**

Area 1: 1249.18’ roadside berm, natural per Carlson

N42.61751 W90.97755

Area 2: 1248.63’

N42.61659 W90.97673

Area 3: 1249.88’

N42.61232 W90.98343

Area 4: 1250.08’

N42.61865 W90.97357

**Emmet County: One Area 1560’+**

Area 1: 1554.52’

N43.26823 W94.85046

**Fayette County: Two Areas 1260’+**

North Area: 1258.69’ the highest point is north of the radio tower flattened area.

N42.76864 W91.61479

South Area: 1254’

**Floyd County: Five Areas 1210’+**

Area 1: 1212.77’ -first runner up

N43.20959 W92.56583

Area 2: 1210.51’

N43.20756 W92.95118

Area 3: 1212.52’ -second runner up

N43.21163 W92.94930

Area 4: 1211.15’ roadbed

N43.21210 W92.94472

Area 5: 1212.99’ -winner

N43.21193 W92.94199

**Franklin County: One Area 1310’+**

Area 1: 1309.84’ concrete steps at house, north of house is highest natural ground

N42.62645 W93.27210

**Fremont County: One Area 1290’+**

Area 1: 1289.49’

N40.84642 W95.75507

**Greene County: Five Areas 1230’+**

Area 1: 1234.85’ field

N42.00693 W94.57296

Area 2: Below 1230’

Area 3: Below 1230’

Area 4: 1236.58’

N41.91542 W94.61875

Area 5: Below 1230’

**Grundy County: Two Areas 1150’+**

Area 1: 1150.55’

N42.36866 W92.97680

Area 2: 1154.23’

N42.36657 W92.97923

**Guthrie County: Seventeen Areas 1500’+**

Area 1: 1506.39’

N41.59124 W94.69892

Area 2: 1505.28’

N41.59052 W94.69636

Area 3: Below 1500’

Area 4: 1500.48’

N41.58406 W94.69861

Area 5: 1513.51’

N41.58119 W94.69424

Area 6: Below 1500’

Area 7: Below 1500’

Area 8: Below 1500’

Area 9: Below 1500’

Area 10: Below 1500’

Area 11: Below 1500’

Area 12: Below 1500’

Area 13: 1502.60’

N41.53506 W94.65509

Area 14: Below 1500’

Area 15: Below 1500’

Area 16: Below 1500’

Area 17: Below 1500’

**Hamilton County: Eight Areas 1260’+**

Area 1: 1261.26’ -runner up

N42.55372 W93.65730

Area 2: 1261.69’ -runner up

N42.55046 W93.66063

Area 3: 1262.12’ -runner up

N42.54790 W93.66243

Area 4: 1262.21’ -runner up

N42.54531 W93.66418

Area 5: 1261.62’ -runner up

N42.54219 W93.66517

Area 6: 1262.38’ -winner

N42.52706 W93.65154

Area 7: 1261.17’ -runner up

N42.52709 W93.65040

Area 8a: 1261.80’ roadbed/county line on Quincy Ave

N42.55765 W93.65663

Area 8b: 1260.75’ field -runner up

N42.55758 W93.65549

**Hancock County: Pilot Knob 1450’+**

Pilot Knob: 1453.90’

N43.25256 W93.55312

**Hardin County: Twenty Seven Areas 1220’+**

Area 1: 1221.35’

N42.29128 W93.46003

Area 2: Below 1220’

Area 3: 1225.62’ field

N42.29383 W93.46157

Area 4: 1221.24’ field -recommended to visit by Carlson

N42.30020 W93.46040

Area 5a: 1224.73’ field

N42.29624 W93.46261

Area 5b: 1225.66’ -recommended to visit by Carlson

N42.29622 W93.46278

Area 6: 1221.39’ -recommended to visit by Carlson

N42.30106 W93.46019

Area 7: 1223.06’

N42.30716 W93.46128

Area 8: 1222.65’ roadside berm -recommended to visit by Carlson

N42.29887 W93.46274

Area 9: 1222.99’

N42.28272 W93.45879

Area 10a: 1223.99’ field

N42.30748 W93.46252

Area 10b: 1224.26’ roadside berm

N42.30742 W93.46276

Area 11: Below 1220’

Area 12: 1223.27’ field edge

N42.30935 W93.45855

Area 13: 1222.16’

N42.31974 W93.46047

Area 14: 1220.16’

N42.31944 W93.45897

Area 15: Under 1220’

Area 16: 1228.19’ field -winner

N42.29991 W93.43097

Area 17: Under 1220’

Area 18: Under 1220’

Area 19: Under 1220’

Area 20: 1220.67’ field

N42.29800 W93.41332

Area 21: 1220.68’ field

N42.54794 W93.10925

Area 22: 1220.86’ maybe a tree in the front yard, could be built up

N42.50898 W93.42094

Area 23: 1218.43’ field

N42.51017 W93.41985

Area 24: Below 1218’

Area 25: Below 1218’

Area 26: Below 1218’

Area 27: 1220.55’ field edge

N42.29649 W93.41469

\*Area 28: 1225.27’ house and built up yard

N42.29413 W93.43083

\*DRAKE Benchmark: 1222.44’

N42.29592 W93.41355

**Harrison County: Twenty Two Areas 1440’+ (Area #s based on Google Earth File)**

Area 1: 1452.00’ Field boundary.

N41.85551 W95.77736

Area 2: Below 1440’

Area 3: 1444.29’

N41.86062 W95.79182

Area 4: Below 1440’

Area 5: Below 1440’

Area 6: 1444.25’

N41.82339 W95.80484

Area 7: Below 1440’

Area 8: 1445.16’

N41.84306 W95.80358

Area 9: Below 1440’

Area 10: 1447.66’

N41.84740 W95.79524

Area 11: 1447.99’ Northeast of KML placemark ~0.2mi

N41.85463 W95.79435

Area 12: 1442.06

N41.85100 W95.78882

Area 13: 1441.15’ North of the KML placemark considerably

N41.84966 W95.78554

Area 14: Below 1440’

Area 15: Below 1440’

Area 16: 1455.64’

N41.82081 W95.98919

Area 17: 1442.15’

N41.81221 W95.99455

Area 18 (BM SEA): 1456.92’

N41.86328 W95.98185

Area 19: 1445.51’

N41.81515 W95.99519

Area 20: 1452.50’

N41.82894 W95.98769

Area 21: 1453.55’

N41.82842 W95.98878

Area 22: Below 1440’

\*Area 23: 1444.14’

N41.80382 W95.99584

\*Area 24: 1446.61’

N41.80532 W95.99560

**Henry County: One Area 800’+**

Area 1: 800.84’ roadside berm -runner up

N40.94720 W91.40043

\*Area 2: 800.89’ fence line, probably a fence post, field edge ~800.45’ -runner up

N40.93851 W91.40751

\*Area 3: 801.97’ trees along railroad -winner

N40.93376 W91.40976

**Howard County: One Area 1410’+**

Area 1a: 1407.63’ field -runner up

N43.47528 W92.53994

Area 1b: 1408.17’ fence line berm -winner

N43.47547 W92.54046

**Humboldt County: One Area 1240’+**

Area 1a: 1245.70’ yard with trees -winner

N42.74302 W94.44297

Area 1b: 1245.72’ roadbed/county line -artificial

N42.74089 W94.44316

**Ida County: Twenty Two Areas 1540’+**

Area 1: 1545.20’ -claimed to have been surveyed highest by local crop-duster

N42.28254 W95.34331

Area 2: Below 1540’

Area 3: Below 1540’

Area 4: Below 1540’

Area 5: Below 1540’

Area 6: 1545.49’

N42.26215 W95.35390

Area 7: 1551.82’

N42.25946 W95.34859

Area 8: Below 1540’

Area 9: 1543.97’

N42.25908 W95.34356

Area 10: 1543.26’

N42.25837 W95.34213

Area 11: 1545.93’

N42.26045 W95.33234

Area 12: 1541.19’

N42.25979 W95.33088

Area 13: 1541.17’

N42.26495 W95.32957

Area 14: Below 1540’

Area 15: 1548.94’

N42.26996 W95.32585

Area 16a: 1547.68’ roadside berm

N42.27284 W95.32323

Area 16b: 1548.15’ roadbed/county line

N42.27265 W95.32308

Area 17: Below 1540’

Area 18: 1543.58’ roadbed/county line

N42.27509 W95.32308

Area 19: 1549.88’

N42.27673 W95.32789

Area 20: Below 1540’

Area 21: 1545.40’

N42.28836 W95.48444

Area 22: 1545.19’

N42.290741 W95.48480

**Iowa County: Two Areas 940’+**

Area 1a: 943.74’ pile of farm house debris - artificial

N41.76363 W92.29628

Area 1b: 942.03’ bump? –not apparent on the ground

N41.76311 W92.29672

Area 1c: 941.85’ field -runner up

N41.76309 W92.29681

Area 2: 943.86’ deadwood pile/trees? Field along fence is ~1.5’ lower -winner

N41.71698 W92.27229

**Jackson County: Two Areas 1140’+**

Area 1: 1142.32’ field

N42.37210 W90.64928

Area 2: 1134.18’ field

N42.35142 W90.65668

**Jasper County: Six Areas 1040’+**

Area 1: 1037.04’ field

N41.85138 W92.91940

Area 2a: 1036.79’ field

N41.86008 W92.92494 or

Area 2b: 1037.27’ roadside berm

N41.86035 W92.92235

Area 3a: 1037.13’ field

N41.86201 W92.92417

Area 3b: 1038.26’ roadside berm (may be a relic error)

N41.86238 W92.92378

Area 4: Below 1036’

Area 5: 1039.15’ field -winner

N41.86202 W92.99062

Area 6a: 1037.42’ roadside berm

N41.86238 W92.92576

Area 6b: 1038.11’ roadbed/county line

N41.86247 W92.92561

\*Area 7: 1039.59’ roadbed completely artificial

N41.86233 W92.92209

**Jefferson County: Four Areas 820’+**

Area 1: Nonexistent

Area 2: Nonexistent

Area 3: 815.28’ field

N41.15875 W92.15590

Area 4: 815.02’ field

N41.15641 W92.14961

\*Area 5: 826.90’ pile on the “paved diamond”, also absent on aerial photo -artificial

N41.15744 W92.16578

\*Area 6: 816.50’ field -runner up

N41.13117 W92.07048

\*Area 7: 816.78’ roadbed -runner up

N41.13951 W92.08253

\*Area 8: 817.53’ field -winner

N41.13830 W92.07497

\*Area 9: 820.63’ house built on artificial mound

N41.13415 W92.07843

\*Area 10: 823.11’ ramp? of four pixels with several meter rise over nearby pixels -artificial

N41.13362 W92.08004

\*Area 11: 816.91’ school entrance, concrete -runner up

N41.15495 W92.16040

\*Area 12: 819.11’ pond rim -artificial

N41.15877 W92.16457

**Johnson County: Five Areas 900’+**

Area 1: 904.71’

N41.82818 W91.81173

Area 2: 906.69’ field

N41.82392 W91.80801

Area 3: Below 900’

Area 4: Below 900’

Area 5: Below 900’

\*Area 6a: 911.21’ field

N41.82019 W91.80678

\*Area 6b: 911.02’ forest with very minor tree error -winner

N41.81902 W91.80594

**Jones County: Four Areas 1090’+**

Area 1: 1085.82’ field

N42.21131 W91.32785

Area 2: 1090.38’ field - winner

N42.20912 W91.31497

Area 3: 1087.87’ field

N42.20178 W91.30414

Area 4: 1085.74’ field edge

N42.14339 W91.22109

**Keokuk County: Twenty Two Areas 900’+**

Area 1: 905.64’ field edge

N41.50944 W92.27516

Area 2: 902.23’

N41.50783 W92.32180

Area 3a: 903.15’ roadside berm

N41.50975 W92.28223

Area 3b: 903.85’ roadbed/county line

N41.50984 W92.28240

Area 4: 901.67’

N41.50963 W92.28558

Area 5: 906.76’ roadside berm -runner up

N41.50969 W92.29261

Area 6: Below 900’

Area 7: 903.34’ tree row

N41.50337 W92.28379

Area 8: 901.27’ field

N41.50664 W92.26723

Area 9: 907.31’ house -runner up

N41.50944 W92.29784

Area 10a: 905.01’ field

N41.49706 W92.40999

Area 10b: 905.24’ yard corner

N41.49644 W92.40883

Area 10c: 906.22’ field edge/county line

N41.49700 W92.41193 or due to a consistent ~0.5m drop off south of a certain latitude with these points on the low side:

Area 10d: 903.67’ field

N41.49481 W92.40926

Area 10e: 903.79’ roadside berm

N41.49576 W92.41005

Area 10f: 904.97’ field edge/county line

N41.49480 W92.41193

Area 10g: 905.23’ roadbed/county line

N41.49566 W92.41199

Area 11: 904.19’ field

N41.50812 W92.30370

Area 12: 902.14’ field edge

N41.50000 W92.32626

Area 13a: 908.25’ field edge or bump

N41.50788 W92.32937

Area 13b: 908.55’ roadside berm

N41.50945 W92.33589

Area 13c: 909.28’ intersection/county line -winner

N41.50968 W92.33603

Area 14: 902.21’ field

N41.49632 W92.34420

Area 15: 907.07’ -runner up

N41.49644 W92.34863

Area 16: 905.64’ field

N41.50024 W92.35060

Area 17: 902.21’ roadside berm

N41.50958 W92.34653

Area 18: 903.44’ building

N41.49806 W92.35610

Area 19: 907.15’ tree? -runner up

N41.50851 W92.36936

Area 20: 903.32’ roadbed/county line

N41.50961 W92.37690

Area 21: 902.98’ field

N41.50608 W92.37815

Area 22: 906.60’ field edge/roadside berm

N41.50948 W92.38419

**Kossuth County: One Area 1320’+**

Area 1a: 1322.13’ field

N43.13174 W94.44192

Area 1b: 1324.14’ roadbed/county line

N43.13188 W94.44276

**Lee County: Two Areas 780’+**

Area 1: 782.67’ field

N40.74347 W91.44289

Area 2: Below 778’

**Linn County: Five Areas 1100’+**

Area 1: 1090.81’ field

N42.28813 W91.37657

Area 2: 1091.54’ field

N42.28857 W91.37826

Area 3: 1096.99’ field -runner up

N42.28896 W91.38031

Area 4: 1092.50’ field edge

N42.29054 W91.38813

Area 5: 1098.21’ field -winner

N42.29424 W91.40232

**Louisa County: One Area 830’+**

Area 1a: 841.12’ field edge and field

N41.08425 W91.28561

Area 1b: 840.45’ field

N41.08089 W91.28256

**Lucas County: Thirteen Areas 1100’+**

Area 1: Below 1100’

Area 2: Below 1100’

Area 3: Below 1100’

Area 4: Below 1100’

Area 5/6/7a: (These three areas are one large area as seen on the topo):

1106.20’ field edge

N40.91062 W93.51591

Area 5/6/7b: 1106.20’ field edge

N40.91064 W93.51700

Area 5/6/7c: 1107.02’ tree? with around 1m pixel jump

N40.91209 W93.51092

Area 5/6/7d: 1107.20’ roadbed/intersection

N40.91247 W93.51873

\*Area 5.5: Below 1100’ at an 1100’ contour SW of the cohp.org coordinates of “Area 5”

Area 8: 1101.05’

N40.92451 W93.47013

Area 9: 1101.69’ field edge

N40.90852 W93.45928

Area 10: 1101.54’

N40.93726 W93.52250

Area 11: 1100.92’ field edge

N40.94329 W93.52344

Area 12a: 1101.54’ field

N40.94178 W93.51858

Area 12b: 1101.54’ structure

N40.94176 W93.51818

Area 12c: 1102.06’ roadbed

N40.94153 W93.51819

“Marion 11”/Area 13: Below 1100’

**Lyon County: Three Areas 1580’+**

Area 1a: 1581.10’ field

N43.49786 W95.88285

Area 1b: 1581.93’ roadbed

N43.49871 W95.88072

Area 2: 1579.03’

N43.49387 W95.88280

Area 3a: 1579.58’ field

N43.49807 W95.89162

Area 3b: 1580.51’ roadbed/state line

N43.50001 W95.89082

**Madison County: Twenty Six Areas 1260’+**

Area 1: 1267.07’ field edge/county line

N41.24161 W94.24170

Area 2: Below 1260’

Area 3: Below 1260’

Area 4: 1266.96’ field edge

N41.24927 W94.24154

Area 5: 1274.04’ roadside berm -runner up

N41.25332 W94.24153

Area 6: 1267.48’

N41.20555 W94.23914

Area 7: 1265.32’ field edge/county line

N41.20673 W94.24168

Area 8: Below 1260’

Area 9: Below 1260’

Area 10: Below 1260’

Area 11: Below 1260’

Area 12: Below 1260’

Area 13: 1265.84’

N41.16847 W94.23808

Area 14: Below 1260’

Area 15: 1272.70’

N41.16430 W94.23416

Area 16: 1263.98’

N41.16778 W94.23148

Area 17: Below 1260’

Area 18: 1270.50’ field edge

N41.16132 W94.23592

Area 19: 1268.86’

N41.15758 W94.23403

Area 20a: 1274.34’ field

N41.15760 W94.2315

Area 20b: 1274.40’ roadside berm -winner

N41.15712 W94.22926

Area 21: 1263.17’ roadside berm

N41.15825 W94.22287

Area 22: 1264.20’

N41.26060 W94.22002

Area 23a: 1267.22’ extremely flat, high ground runs between these coordinates

N41.26536 W94.23563 NW

Area 23b: N41.26588 W94.23603 and NE to

Area 23c: N41.26723 W94.23476

Area 24: 1265.84’ roadbed

N41.26539 W94.21960

Area 25: 1262.30’

N41.28337 W94.23913

Area 26: 1262.46’

N41.28339 W94.23447

**Mahaska County: Six Areas 910’+**

Area 1: 910.46’

N41.50589 W92.68166

Area 2: 911.55’

N41.49070 W92.67937

Area 3: Below 910’

Area 4: 916.96’ field edge -winner

N41.48608 W92.67506

Area 5: 916.27’ field edge -runner up

N41.47977 W92.67555

Area 6a: 915.44’ field edge/county line

N41.16182 W92.86971

Area 6b: 915.58’ roadside berm

N41.16116 W92.86967

Area 6c: 916.17’ roadbed/county line

N41.16105 W92.86960

\*Area 7: 912.30’ one field west of Area 3, a 900’ contour on the topo

N41.50540 W92.75261

**Marion County: Twelve Areas 1000’+**

Area 1a: 1009.70’ field

N41.16106 W93.29164

Area 1b: 1010.84’ roadside berm

N41.16081 W93.29183

Area 1c: 1010.87’ roadbed/county line -runner up

N41.16070 W93.29183

Area 2: 1003.06’ roadside berm

N41.16087 W93.30084

Area 3a: 1009.54’ church

N41.16141 W93.30976

Area 3b: 1009.31’ house -runner up

N41.16448 W93.31407

Area 4a: 1010.26’ field

N41.16104 W93.32633

Area 4b: 1010.68’ roadside berm

N41.16077 W93.32630

Area 4c: 1010.95’ roadbed/county line -winner

N41.16068 W93.32663

Area 5: Below 1000’

Area 6: 1004.13’ concrete silo base

N41.17610 W93.29278

Area 7: Below 1000’

Area 8: 1000.34’field

N41.16150 W93.25744

Area 9: Below 1000’

Area 10: Below 1000’

**Marshall County: Eleven Areas 1150’+**

Area 1: 1149.70’ field edge

N42.07269 W93.22441

Area 2: Below 1150’

Area 3: 1150.51’

N42.07207 W93.22167

Area 4: Below 1150’

Area 5: 1151.27’ field -runner up

N42.05085 W93.19825

Area 6: Below 1150’

Area 7: Below 1150’

Area 8: 1150.47’ at grain silo

N42.02368 W93.20556

Area 9: 1152.09’ field -winner

N42.02465 W93.20443

Area 10: Below 1150’

Area 11: Below 1150’

\*Area 12: 1151.21’ field (NW of Area 1 680’) -runner up

N42.07326 W93.22714

**Mills County: Three Areas 1340’+**

Area 1 (1340’+ with BEACON): 1344.68’

N41.12995 W95.78895

Area 2 (1344’): 1342.00’

N41.13151 W95.79270

Area 3 (1340’+): 1347.02’ Third highest pixel is 1346.33’

N40.95525 W95.75922

**Mitchell County: One Area 1400’+**

Area 1: 1407.15’ about 20cm pixel jump

N43.48203 W92.55671

**Monona County: Three Areas 1480’+**

Area 1: 1483.10’

N41.90539 W95.94543

Area 2: 1479.97’

N41.90533 W95.94417

Area 3: 1478.91’

N41.90486 W95.94304

**Monroe County: Eleven Areas 1020’+**

Area 1a: 1022.84’ field edge

N40.92014 W93.09591

Area 1b: 1022.96’ roadbed/county line

N40.92586 W93.09794

Area 1c: 1022.93’ barn -winner

N40.92700 W93.09675

Area 2: Below 1020’

Area 3: 1022.47 roadside berm -runner up

N40.93530 W93.09791

Area 4: Below 1020’

Area 5: 1020.58’ field edge

N40.90901 W93.08376

Area 6: Below 1020’

Area 7: 1022.05’ field edge highest field to the south 650’ -runner up

N40.90561 W93.08409

Area 8: 1022.83’ weird field bump? -runner up

N40.90196 W93.07658

Area 9: Below 1020’

Area 10: Below 1020’

Area 11: Below 1020’

**Montgomery County: Seven Areas 1300’+**

Area 1a: 1299.72’ roadside berm

N41.1549 W95.28930

Area 1b: 1300.97’ roadbed

N41.15502 W95.28919

Area 2: 1301.02’ roadside berm

N41.15947 W95.28462

Area 3: 1301.59’ roadside berm

N41.15940 W95.27702

Area 4: 1299.09’

N41.14832 W95.29341

Area 5a: 1303.93’ maybe a tree

N41.14870 W95.06082

Area 5b: 1302.22’

N41.14836 W95.06077

Area 5c: 1302.26’ roadbed

N41.14804 W95.06064

Area 6: 1301.44’ maybe a fence post

N41.15564 W95.08962

Area 7a: 1308.58’ roadside berm

N41.13362 W95.09974

Area 7b: 1309.88’ roadbed

N41.13343 W95.09957

Area 7c: 1308.95’ probable unnatural object (extends 1m higher than surrounding cells) –did not see it

N41.13162 W95.10124

Area 7d: 1307.57’ in field -winner

N41.13422 W95.09874

**Muscatine County: Five Areas 810’+**

Area 1: 808.00’ field

N41.57067 W90.88150

Area 2a: 808.10’ roadside berm

N41.57025 W90.88555

Area 2b: 809.23’ roadside berm across the road with ~0.8’ pixel jump –winner

N41.56998 W90.88565

BM DURANT: 809.01’ field -runner up

N41.57050 W90.88069

Area 4: 832.04’ landfill -artificial

N41.51436 W90.84442

Area 5: Completely gone, probably excavated

\*Area 6: 809.41’ house, no yard at this elevation -artificial

N41.56434 W90.88180

\*Area 7: 807.74’ house -artificial

N41.56855 W90.88160

\*Area 8: 807.51’ field

N41.56891 W90.88452

\*Area 9: 807.72’ field edge

N41.56818 W90.88384

**O’Brien County: One Area 1580’+**

Area 1a: 1582.97’ roadbed/county line

N43.25790 W95.60330

Area 1b: 1581.47’ roadside berm

N43.25781 W95.60342

Area 1c: 1580.93’ in field -runner up

N43.25754 W95.60331

\*Area 2: 1583.05’ may be error caused by trees, but the ground between the farm buildings is consistently above 1581’ -winner

N43.241575 W95.591994

**Osceola County: Hawkeye Point 1670’**

Area 1: 1671.02’

N43.46037 W95.70893

**Page County: Six Areas 1250’+**

Area 1: 1247.73’

N40.90000 W95.05893

Area 2: 1250.22’ on roadbed

N40.88630 W95.05195

Area 3: 1250.19’

N40.87725 W95.07531

Area 4a: 1251.93’ field edge

N40.87555 W95.07775

Area 4b: 1250.85’ field center

N40.87338 W95.07735

Area 5: 1257.06’ roadbed or ~1256.4’ west edge of road in grass

N40.85618 W95.08063

Area 6a: 1250.78’ at a large tree

N40.90025 W95.10349

Area 6b: 1250.29’ in the front yard

N40.90073 W95.10377

**Palo Alto County: One Area 1530’+**

Area 1: 1532.43’

N43.24711 W94.85637

**Plymouth County: Three Areas 1520’+**

Area 1: 1523.96’ -runner up

N42.71949 W96.54748

Area 2: 1524.27’ -winner

N42.71599 W96.54728

Area 3 (BM COAD): 1519.94’

N42.71980 W96.55409

**Pocahontas County: One Area 1380’+**

Area 1a: 1383.87’ field -winner

N42.90956 W94.91140

Area 1b: 1385.87’ roadbed/county line -artificial

N42.90969 W94.91134

**Polk County: Thirteen Areas 1040’+**

Area 1: Below 1040’

Area 2: Below 1040’

Area 3: 1041.60’

N41.85606 W93.68290

Area 4: 1046.81’

N41.86058 W93.68635

Area 5: 1042.38’

N41.86088 W93.69204

Area 6: Below 1040’

Area 7a: 1042.25’ trees

N41.85989 W93.69591

Area 7b: 1041.82’ small clearing

N41.86006 W93.69530

Area 8: Below 1040’

Area 9: Below 1040’

Area 10: Below 1040’

Area 11: 1045.41’

N41.81049 W93.66243

Area 12: 1044.63’ fence line

N41.85103 W93.69251

Area 13: Below 1040’

\*Area 14: 1041.27’ east of Area 13 in another field

N41.85642 W93.60380

**Pottawattamie County: Some Areas 1360’+**

Area 3: 1361.09’ Field edge

N41.50114 W95.23206

Area 13: 1362.89’ Rear attachment to middle shed -winner

N41.32622 W95.83446 or

1362.89’ Stump next to back of house, single cell jumps ~1ft

N41.32604 W95.83460

\*Area 14: 1361.70’ Field -runner up

N41.33522 W95.81922

**Poweshiek County: One Area 1040’+**

Area 1: 1033.03’

N41.85337 W92.71410

\*Area 2: 1036.23’ field edge, highest fields are just south of coordinates and 200’ north of road north of the coordinates tending to be higher on the left side of the fence

N41.84868 W92.69831

**Ringgold County: Six Areas 1280’+**

Area 1: 1277.84’ on roadside berm, field itself is higher than the east side (Area 2) -winner

N40.89685 W94.39559

Area 2: 1277.53’ on roadside berm, clearly lower than Area 1 in person -runner up

N40.89641 W94.39546

Area 3: 1276.60’ field, looked lower from Area 1, but about equal with 1 when sighting back

N40.89498 W94.39619

Area 4: Slopes up to Area 3

Area 5a: 1275.17’ in field

N40.89831 W94.37933

Area 5b: 1276.31’ on roadside berm

N40.89911 W94.37864

Area 6: 1271.22’

N40.89702 W94.38164

**Sac County: One Area 1560’+**

Area 1: 1558.85’

N42.27444 W95.32174

**Scott County: Eight Areas 830’+**

Area 1: Below 830’

Area 2: Below 830’

Area 3: 830.66’ field edge

N41.73516 W90.87399

Area 4: Below 830’

Area 5: Below 830’

Area 6a: 834.74’ house

N41.73018 W90.87860

Area 6b: 833.07’ field

N41.73013 W90.87596

Area 6c: 834.18’ ~1.5’ pixel jump

N41.73046 W90.87799

Area 7: Below 830’

Area 8: 834.17’ field edge

N41.7320 W90.88407

**Shelby County: Two Areas 1520’+**

Area 1: 1518.37’ horse pasture -runner up

N41.85001 W95.25619

Area 2: 1519.48’ fence line/log pile -winner

N41.84905 W95.25560

\*Area 3: 1518.72 corn field -runner up

N41.8391 W95.2563

**Sioux County: Three Areas 1490’+**

Area 1: 1492.94’

N43.25529 W96.48246

Area 2: 1490.05’

N43.25470 W96.48610

Area 3: 1487.75’

N43.15320 W96.14819

**Story County: Eight Areas 1160’+**

Area 1: 1158.10’ fence

N42.19918 W93.38088

Area 2: 1158.16’

N42.19802 W93.37880

Area 3: 1157.08’

N42.19616 W93.37823

Area 4: 1157.90’

N42.20766 W93.39960

Area 5: 1159.41’

N42.20873 W93.40149

Area 6a: 1163.03’ roadbed/county line

N42.20925 W93.40712

Area 6b: 1162.35’ roadside berm

N42.20918 W93.40709

Area 6c: 1161.38 field edge

N42.20916 W93.40711

Area 7: 1155.90’

N42.20502 W93.32843

Area 8: 1157.83’

N42.08109 W93.25655

**Tama County: Fifteen Areas 1080’+**

Area 1: Below 1080’

Area 2: Below 1080’

Area 3: Below 1080’

Area 4: Below 1080’

Area 5: 1080.43’ roadbed

N42.23293 W92.60063

Area 6: Below 1080’

Area 7: Below 1080’

Area 8: Below 1080’

Area 9: Below 1080’

Area 10: 1083.35’ near a tree behind a removed house, maybe a pile

N42.20081 W92.63167

Area 11: Below 1080’

Area 12: Below 1080’

Area 13: Below 1080’

Area 14: Below 1080’

Area 15: Below 1080’

**Taylor County: Seventy Areas 1300’+**

Area 1: Below 1300’

Area 2: Below 1300’

Area 3: Below 1300’

Area 4: Below 1300’

Area 5: Below 1300’

Area 6: Below 1300’

Area 7: Below 1300’

Area 8: Below 1300’

Area 9: Below 1300’

Area 10: 1303.14’ field

N40.89627 W94.83878

Area 11: 1304.76’ field edge -runner up

N40.8930 W94.83589

Area 12: 1301.17’

N40.89177 W94.83720

Area 13: Below 1300’

Area 14: Below 1300’

Area 15: Below 1300’

Area 16: Below 1300’

Area 17: Below 1300’

Area 18: 1301.73’

N40.88164 W94.83469

Area 19: 1302.67’

N40.87848 W94.83349

Area 20: Below 1300’

Area 21: 1301.83’

N40.87501 W94.83539

Area 22: 1303.17’ Pile of dirt and metal -artificial

N40.87129 W94.83506

Area 23: 1302.09’ Might be a septic mound

N40.86909 W94.83418

Area 24: Below 1300’

Area 25: Below 1300’

Area 26: 1301.03’ roadside berm

N40.89960 W94.65557

Area 27: Below 1300’

Area 28: Below 1300’

Area 29: 1304.92’ pile ~8ft high -artificial

N40.89944 W94.64797

Area 30: 1301.88’

N40.89251 W94.65050

Area 31: Below 1300’

Area 32: 1302.84’

N40.88798 W94.65601

Area 33: 1301.95’

N40.88719 W94.66207

Area 34: Below 1300’

Area 35: 1300.63’

N40.88324 W94.65723

Area 36: 1300.63’

N40.88409 W94.66611

Area 37: 1301.11’

N40.8795 W94.65659

Area 38: 1301.30’

N40.87812 W94.65541

Area 39a: 1306.46’ misreading, does not exist on ground

N40.88152 W94.67297

Area 39b: 1303.17’ roadside berm

N40.88053 W94.67202

Area 40: 1302.62’

N40.88436 W94.67800

Area 41: Below 1300’

Area 42: Below 1300’

Area 43: Below 1300’

Area 44: Below 1300’

Area 45: Below 1300’

Area 46: Below 1300’

Area 47: Below 1300’

Area 48: Below 1300’

Area 49: Below 1300’

Area 50: Below 1300’

Area 51a: 1305.43’ roadside power pole -winner

N40.89891 W94.56587

Area 51b: 1307.57’ roadbed

N40.89920 W94.56567

Area 51c: 1306.49’ large concrete disc about two feet high in Lenox -artificial

N40.88230 W94.55730

Area 52: Below 1300’

Area 53: Below 1300’

Area 54: Below 1300’

Area 55: Below 1300’

Area 56: Below 1300’

Area 57: Below 1300’

Area 58: Below 1300’

Area 59: Below 1300’

Area 60: Below 1300’

Area 61: Below 1300’

Area 62: Below 1300’

Area 63: Below 1300’

Area 64: Below 1300’

Area 65: Below 1300’

Area 66a: 1304.22’ roadbed

N40.82016 W94.63035

Area 66b: 1304.13’ roadbed

N40.81882 W94.62387

Area 66c: 1303.36’ field edge

N40.82025 W94.63014

Area 66d: 1303.53’ pile in field corner, may be artificial

N40.82027 W94.62860

Area 66e: 1302.93’ field near DALBY on field ramp

N40.819049 W94.62333

Area 67a: 1302.90’

N40.80642 W94.62997

Area 67b: 1303.33’

N40.8098 W94.62870

Area 68: Below 1300’

Area 69: Below 1300’

Area 70a: 1301.44’ if field

N40.78598 W94.75893

Area 70b: 1301.54’ if object

N40.78559 W94.75873

Area 70c: 1301.85’ if roadside berm

N40.78442 W94.75906

**Union County: Two Areas 1360’+**

Area 1a: 1363.41’ gravel of an old railroad bed, sticks up ~1.5ft -artificial

N41.15732 W94.37653

Area 1b: 1363.84’ on roadbed

N41.15745 W94.37674

Area 2: Slopes to Area 1 and below 1360’

**Van Buren County: Twenty Nine Areas 810’+**

Area 1: Below 810’

Area 2: Below 810’ off roadbed

Area 3: Below 810’

Area 4: 810.33’ roadbed/county line

N40.64664 W92.17896

Area 5: 810.45’

N40.64815 W92.17398

Area 6: 810.59’ roadbed/county line

N40.64367 W92.17900

Area 7a: 810.20’ field

N40.63738 W92.17896

Area 7b: 810.74’ roadbed/county line

N40.63708 W92.17913

Area 8: 812.93’ maybe a pile?

N40.63923 W92.17267

Area 9: Below 810’

Area 10: Below 810’

Area 11a: 811.98’ roadside berm

N40.62452 W92.17926

Area 11b: 812.95’ roadbed/county line at intersection

N40.62444 W92.17937

Area 12: Below 810’

Area 13: Below 810’

Area 14: Below 810’

Area 15: Below 810’

Area 16: Below 810’

Area 17: 811.81’ tree line east of actual 17 which is below 810’, probably a tree return

N40.73320 W92.15884

Area 18: 813.68’ artificial pile in a shed, Area 18 is highest around the buildings at the farm with the shed (about 812’), the highest road being J40 directly north of it and the highest field being north of J40 in that same area, west of Amber Avenue. Other high ground in the contour lies immediately on either side of the north end of Amber Avenue, the first driveway to the south heading east from the Amber/J40 intersection, potentially in the L shaped trees around the house north of J40 and east of Amber, and on the roadbed of Acorn Avenue halfway between its junction with J40 and the first 90 degree turn.

N40.74765 W92.17685

Area 19: Slopes up to Area 18

Area 20: Below 810’

Area 21: Below 810’

Area 22: Below 810’

Area 23: 810.02’ 20cm jump on final pixel, rest of area is below 810’

N40.80182 W92.15476

Area 24: Below 810’

Area 25a: 810.05’ field

N40.80976 W92.16783

Area 25b: 812.02’ fence line

N40.80993 W92.16619

Area 26: 810.02’ fence line

N40.81634 W92.17405

Area 27: Below 810’

Area 28: Below 810’

Area 29: Below 810’

**Wapello County: Twelve Areas 920’+**

Area 1a: 928.82’ field edge

N40.89897 W92.63884

Area 1b: 930.07’ roadbed/county corner -winner

N40.89887 W92.63908

Area 2: Below 920’

Area 3: Below 920’

Area 4: Below 920’

Area 5: 920.47’ actually between Area 4 and 5 at field edge

N40.92053 W92.63457

Area 6: Below 920’

Area 7: Below 920’

Area 8a: 923.30’ at house

N40.91121 W92.63901

Area 8b: 924.80’ roadbed/county line

N40.91162 W92.63918

Area 9a: 927.92’ field edge

N40.90612 W92.63889

Area 9b: 929.39’ roadbed/county line -runner up

N40.90561 W92.63912

Area 10: 920.14’

N40.90617 W92.62771

Area 11a: 925.39’ field edge

N40.89897 W92.63293

Area 11b: 926.28’ roadbed/county line

N40.89888 W92.63224

Area 12: Below 920’

**Washington County: Four Areas 820’+**

Area 1: 822.55’ roadbed

N41.46846 W91.93899

Area 2: 826.57’ field

N41.47445 W91.94339

Area 3: Below 820’

Area 4: Below 820’

**Warren County: One Area 1110’+**

One Area: 1098.19’ field -runner up

N41.16724 W93.78547

\*Area 2: 1099.28’ field -winner

N41.16363 W93.78356

\*Area 3: 1099.82’ overpass ramp -artificial

N41.17666 W93.78355

\*Area 4: 1099.65’ interstate -artificial

N41.16325 W93.78406

**Wayne County: Three Areas 1120’+**

Area 1a: 1119.02’ field

N40.70892 W93.52487

Area 1b: 1120.84’ house -winner

N40.71074 W93.52422

Area 2: Flattened

Area 3: 1116.04’

N40.71750 W93.49832

\*Area 4a: 1119.50’ artificial pile with 0.5 to 1m rise

N40.73598 W93.50964

\*Area 4b: 1117.94’ house or field -runner up

N40.73611 W93.50665

\*Area 4c: 1117.68’ roadbed

N40.73565 W93.50759

\*Area 4d: 1117.68’ trees along road

N40.73548 W93.50859

\*Area 4e: 1117.68’ trees along road

N40.73530 W93.50861

**Webster County: Four Areas 1230’+**

Area 1: 1228.92’ field -winner

N42.63759 W94.43562

Area 2: 1226.69’ field -second runner up

N42.63351 W94.43024

Area 3: 1226.54’ grain bin -third runner up

N42.63209 W94.42474

Area 4: 1227.16’ field -first runner up

N42.63173 W94.44020

**Winnebago County: Two Areas 1370’+**

Area 1: 1378.95’ -runner-up and artificial according to Edward Earl

N43.25567 W93.57494

Area 2: 1378.98’ junk in underbrush including metal and concrete -winner

N43.32322 W93.77467

**Winneshiek County: Four Areas 1360’+**

Area 1: 1365.91’ -runner up only if Area 2 has been totally leveled

N43.49845 W91.83238

Area 2: 1373.85’ -unclear if LiDAR is prior to or after the tilling of this formerly treed area

N43.50065 W91.85166

Area 3: Below 1360’

Area 4: Below 1360’

**Worth County: Six Areas 1350’+**

Area 1: 1353.98’

N43.37460 W93.39197

Area 2: 1357.24’

N43.37227 W93.39210

Area 3: 1359.69’ -winner

N43.36860 W93.39312

Area 4: 1352.70’ at wind turbine

N43.36490 W93.39413

Area 5: 1348.78’

N43.48760 W93.44444

Area 6: 1358.23’ in trees with a 30cm pixel jump

N43.46878 W93.46834

**Woodbury County: One Area 1520’+**

Area 1: 1513.76'

N42.38798 W95.68450

**Wright County: One Area 1290’+**

Area 1: 1302.80’

N42.65163 W93.57040