

2020 Black Hawk County, Iowa

1/6/2021

US Survey Feet

Name: Black Hawk County, IA										
Coordinate System: US State Plane 1983										
Datum: NAD 83(NA2011)										
Zone: Iowa North 1401										
Geoid: GEOID18(Conus)										
Vertical Datum: NAVD88										
Adjustment by: Gary G Brown 12/1/2020		US sft								
Point ID	Northing	Easting	Elevation	Latitude	Longitude	Height	Projection	Height	Combined	Mapping
	sft	sft	sft	(Global)	(Global)	(Global)	Scale Factor	Scale Factor	Scale Factor	Angle
7001	3572837.966	5182692.848	1015.786	N42°17'49.85140"	W92°32'01.00279"	912.008	0.9999661529	0.9999564045	0.9999225589	0°39'18"
7002	3589046.476	5182464.018	980.044	N42°20'29.98593"	W92°32'01.58250"	876.271	0.9999614650	0.9999581129	0.9999195796	0°39'17"
7003	3604729.236	5182293.661	907.820	N42°23'04.91995"	W92°32'01.46398"	804.039	0.9999574980	0.9999615658	0.9999190655	0°39'18"
7004	3620402.444	5182108.104	952.524	N42°25'39.76074"	W92°32'01.54942"	848.741	0.9999540925	0.9999594293	0.9999135236	0°39'18"
7005	3636001.205	5176406.038	1012.450	N42°28'14.48169"	W92°33'15.25114"	908.566	0.9999512482	0.9999565699	0.9999078202	0°38'28"
7006	3635702.261	5182040.150	1012.480	N42°28'10.89923"	W92°32'00.12282"	908.684	0.9999513077	0.9999565643	0.9999078741	0°39'18"
7007	3573099.684	5193251.900	992.699	N42°17'51.22021"	W92°29'40.46598"	889.169	0.9999661103	0.9999574962	0.9999236080	0°40'53"
7008	3586231.578	5196364.990	1006.306	N42°20'00.56917"	W92°28'56.94085"	902.882	0.9999622814	0.9999568409	0.9999191240	0°41'23"
7009	3604741.455	5194231.353	892.620	N42°23'03.66197"	W92°29'22.40120"	789.127	0.9999575280	0.9999622786	0.9999198082	0°41'05"
7010	3635806.983	5187172.437	994.326	N42°28'11.34827"	W92°30'51.62953"	890.620	0.9999513002	0.9999574277	0.9999087300	0°40'05"
7011	3635812.575	5192238.394	976.359	N42°28'10.81448"	W92°29'44.03670"	872.751	0.9999513091	0.9999582818	0.9999095930	0°40'51"
7012	3573083.164	5203858.285	978.055	N42°17'49.78663"	W92°27'19.34344"	874.750	0.9999661549	0.9999581854	0.9999243418	0°42'29"
7013	3610384.683	5200478.108	911.465	N42°23'58.65928"	W92°27'58.24905"	808.126	0.9999562527	0.9999613705	0.9999176249	0°42'02"
7014	3616416.631	5200442.151	887.850	N42°24'58.24660"	W92°27'57.74499"	784.498	0.9999549507	0.9999625000	0.9999174523	0°42'03"
7015	3636043.536	5203261.612	962.090	N42°28'11.77579"	W92°27'16.92377"	858.748	0.9999512931	0.9999589512	0.9999102463	0°42'30"
7016	3610340.462	5209795.282	959.591	N42°23'57.07817"	W92°25'54.08357"	856.512	0.9999562884	0.9999590577	0.9999153479	0°43'27"
7017	3615684.156	5208253.562	906.162	N42°24'50.05435"	W92°26'13.73503"	803.034	0.9999551248	0.9999616140	0.9999167405	0°43'13"
7018	3574057.095	5214208.495	1001.786	N42°17'58.12050"	W92°25'01.46242"	898.700	0.9999658962	0.9999570406	0.9999229383	0°44'02"
7019	3589080.351	5213982.583	976.522	N42°20'26.54728"	W92°25'01.90788"	873.504	0.9999615594	0.9999582452	0.9999198062	0°44'02"
7020	3605195.746	5213835.779	976.406	N42°23'05.75157"	W92°25'01.11351"	873.437	0.9999574782	0.9999582486	0.9999157286	0°44'02"
7021	3621764.691	5213542.887	941.287	N42°25'49.45379"	W92°25'02.18845"	838.306	0.9999538979	0.9999599281	0.9999138278	0°44'02"
7022	3632086.639	5216422.790	893.266	N42°27'31.04550"	W92°24'22.00739"	790.322	0.9999519903	0.9999622218	0.9999142139	0°44'29"
7023	3636082.029	5212869.876	899.847	N42°28'10.96245"	W92°25'08.72123"	796.772	0.9999513067	0.9999619136	0.9999132221	0°43'57"
7024	3615773.793	5218103.727	949.044	N42°24'49.69545"	W92°24'02.41393"	846.197	0.9999551324	0.9999595508	0.9999146850	0°44'42"
7025	3626570.358	5219195.967	914.603	N42°26'36.20093"	W92°23'45.97468"	811.771	0.9999529902	0.9999611965	0.9999141885	0°44'53"
7026	3573369.126	5225077.655	959.475	N42°17'49.92394"	W92°22'36.95969"	856.588	0.9999661507	0.9999590535	0.9999252056	0°45'40"
7027	3605307.796	5224642.384	958.935	N42°23'05.46553"	W92°22'37.10563"	856.216	0.9999574850	0.9999590718	0.9999165586	0°45'40"
7028	3621221.685	5224531.076	948.202	N42°25'42.67380"	W92°22'35.77087"	845.525	0.9999540337	0.9999595830	0.9999136186	0°45'41"

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Point ID	Northing sft	Easting sft	Elevation sft	Latitude (Global)	Longitude (Global)	Height (Global)	Projection Scale Factor	Height Scale Factor	Combined Scale Factor	Mapping Angle
7030	3636062.134	5224330.277	922.215	N42°28'09.29001"	W92°22'35.81864"	819.477	0.9999513346	0.9999608283	0.9999121647	0°45'41"
7031	3589293.928	5230089.621	955.980	N42°20'26.56293"	W92°21'27.40999"	853.273	0.9999615590	0.9999592122	0.9999207728	0°46'27"
7032	3616025.749	5229898.931	941.082	N42°24'50.63894"	W92°21'25.13635"	838.520	0.9999551123	0.9999599177	0.9999150318	0°46'29"
7034	3573577.263	5235660.454	924.156	N42°17'50.56689"	W92°20'16.11356"	821.453	0.9999661306	0.9999607330	0.9999268650	0°47'16"
7035	3606138.323	5235227.888	875.807	N42°23'12.25593"	W92°20'15.91245"	773.298	0.9999573241	0.9999630352	0.9999203609	0°47'16"
7036	3621384.751	5234102.792	933.870	N42°25'43.00823"	W92°20'28.11873"	831.411	0.9999540270	0.9999602576	0.9999142865	0°47'07"
7037	3630442.649	5235091.085	929.877	N42°27'12.34512"	W92°20'13.28001"	827.437	0.9999523233	0.9999604477	0.9999127729	0°47'18"
7038	3636199.002	5234966.257	909.787	N42°28'09.22130"	W92°20'13.88886"	807.318	0.9999513357	0.9999614094	0.9999127470	0°47'17"
7039	3616087.771	5240424.828	908.627	N42°24'49.82175"	W92°19'04.81302"	806.277	0.9999551297	0.9999614590	0.9999165904	0°48'04"
7040	3626905.668	5240355.659	903.261	N42°26'36.68671"	W92°19'03.71818"	800.930	0.9999529810	0.9999617147	0.9999146975	0°48'05"
7041	3636278.103	5240436.071	842.170	N42°28'09.25296"	W92°19'00.89642"	739.815	0.9999513352	0.9999646360	0.9999159729	0°48'07"
7042	3573740.803	5246262.454	982.720	N42°17'50.71825"	W92°17'55.01960"	880.208	0.9999661259	0.9999579246	0.9999240519	0°48'51"
7043	3589621.691	5246099.634	902.150	N42°20'27.60794"	W92°17'54.18241"	799.725	0.9999615303	0.9999617718	0.9999233036	0°48'52"
7044	3604818.249	5245773.050	900.128	N42°22'57.76052"	W92°17'55.65556"	797.797	0.9999576690	0.9999618641	0.9999195347	0°48'51"
7045	3616197.028	5250977.056	844.686	N42°24'49.41944"	W92°16'44.13064"	742.505	0.9999551383	0.9999645072	0.9999196471	0°49'39"
7046	3621579.290	5246196.558	913.224	N42°25'43.26054"	W92°17'46.83323"	810.991	0.9999540219	0.9999612337	0.9999152574	0°48'57"
7047	3636365.426	5247380.702	832.672	N42°28'09.14501"	W92°17'28.22560"	730.454	0.9999513370	0.9999650835	0.9999164222	0°49'09"
7048	3573939.079	5256874.394	882.130	N42°17'51.16271"	W92°15'33.78646"	779.811	0.9999661121	0.9999627235	0.9999288369	0°50'27"
7049	3605821.310	5256361.973	831.112	N42°23'06.15784"	W92°15'34.37954"	728.960	0.9999574686	0.9999651545	0.9999226246	0°50'27"
7050	3616347.667	5259574.943	823.243	N42°24'49.66463"	W92°14'49.49177"	721.192	0.9999551331	0.9999655260	0.9999206606	0°50'57"
7051	3636480.089	5256250.081	869.960	N42°28'09.00777"	W92°15'29.87003"	767.889	0.9999513393	0.9999632941	0.9999146352	0°50'30"
7052	3573397.990	5267463.295	841.828	N42°17'44.25882"	W92°13'13.00825"	739.709	0.9999663274	0.9999646404	0.9999309690	0°52'02"
7053	3590336.980	5261820.034	853.860	N42°20'32.41260"	W92°14'24.73210"	751.730	0.9999613986	0.9999640660	0.9999254660	0°51'14"
7054	3605624.661	5264068.074	820.356	N42°23'03.08562"	W92°13'51.74450"	718.342	0.9999575417	0.9999656621	0.9999232053	0°51'36"
7055	3611425.471	5271876.810	829.370	N42°23'59.21202"	W92°12'06.51768"	727.523	0.9999562403	0.9999652233	0.9999214651	0°52'47"
7056	3622561.791	5267032.685	895.972	N42°25'49.94071"	W92°13'08.82594"	794.057	0.9999538881	0.9999620431	0.9999159330	0°52'05"
7057	3629869.040	5262114.634	859.323	N42°27'02.84892"	W92°14'12.94484"	757.334	0.9999524956	0.9999637986	0.9999162959	0°51'22"
7058	3632264.142	5269648.149	912.021	N42°27'25.38226"	W92°12'31.97703"	810.138	0.9999520903	0.9999612746	0.9999133667	0°52'30"
7059	3636960.737	5266736.498	923.239	N42°28'12.21005"	W92°13'09.86669"	821.317	0.9999512859	0.9999607403	0.9999120281	0°52'04"
7060	3576613.296	5274328.720	824.083	N42°18'14.98135"	W92°11'41.00522"	722.116	0.9999653777	0.9999654814	0.9999308603	0°53'05"
7061	3584731.599	5271257.691	813.099	N42°19'35.63669"	W92°12'20.21588"	711.128	0.9999629892	0.9999660067	0.9999289971	0°52'38"
7062	3574234.861	5277875.652	841.113	N42°17'50.94462"	W92°10'54.30157"	739.195	0.9999661189	0.9999646649	0.9999307850	0°53'36"
7063	3584833.289	5279105.846	810.840	N42°19'35.44081"	W92°10'35.72612"	709.015	0.9999629948	0.9999661077	0.9999291037	0°53'49"
7064	3605960.055	5277449.717	904.970	N42°23'04.37557"	W92°10'53.38480"	803.213	0.9999575110	0.9999616053	0.9999191179	0°53'37"
7065	3621714.639	5277362.583	869.648	N42°25'40.00389"	W92°10'51.27021"	767.881	0.9999540875	0.9999632943	0.9999173835	0°53'38"
7066	3636681.162	5277609.814	950.158	N42°28'07.79596"	W92°10'44.85590"	848.385	0.9999513595	0.9999594465	0.9999108080	0°53'43"

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7067	3574341.045	5288518.747	824.377	N42°17'50.32956"	W92°08'32.67281"	722.636	0.9999661380	0.9999654565	0.9999315957	0°55'12"
7068	3606101.599	5288019.158	914.378	N42°23'04.12111"	W92°08'32.53304"	812.797	0.9999575170	0.9999611472	0.9999186659	0°55'12"
7069	3636588.728	5287535.403	949.635	N42°28'05.32971"	W92°08'32.45449"	847.995	0.9999514009	0.9999594651	0.9999108680	0°55'13"
7070	3590139.562	5293421.185	887.922	N42°20'25.59496"	W92°07'24.02318"	786.357	0.9999615856	0.9999624108	0.9999239979	0°55'59"
7071	3622141.350	5293063.424	934.824	N42°25'41.74529"	W92°07'21.84446"	833.286	0.9999540524	0.9999601680	0.9999142223	0°56'00"
7072	3636820.564	5293446.545	956.294	N42°28'06.67432"	W92°07'13.54232"	854.732	0.9999513783	0.9999591431	0.9999105234	0°56'06"
7073	3573093.497	5298987.742	852.599	N42°17'36.32266"	W92°06'13.65869"	750.984	0.9999665763	0.9999641014	0.9999306789	0°56'47"
7074	3605578.668	5298501.686	883.570	N42°22'57.26929"	W92°06'12.98584"	782.127	0.9999576808	0.9999626132	0.9999202955	0°56'47"
7075	3636810.480	5298070.864	962.218	N42°28'05.82466"	W92°06'11.85044"	860.711	0.9999513926	0.9999588573	0.9999102519	0°56'48"
7076	3577520.589	5309450.535	820.280	N42°18'18.31978"	W92°03'53.46268"	718.799	0.9999652759	0.9999656399	0.9999309170	0°58'22"
7077	3590538.849	5309306.552	905.070	N42°20'26.92897"	W92°03'52.43699"	803.678	0.9999615489	0.9999615829	0.9999231333	0°58'22"
7078	3606513.138	5308462.143	876.700	N42°23'04.85261"	W92°04'00.07318"	775.358	0.9999574996	0.9999629367	0.9999204379	0°58'17"
7079	3627532.350	5308454.521	944.260	N42°26'32.46506"	W92°03'55.42198"	842.873	0.9999530608	0.9999597098	0.9999127725	0°58'20"
7080	3636912.841	5303948.669	958.647	N42°28'05.86895"	W92°04'53.41101"	857.200	0.9999513918	0.9999590251	0.9999104189	0°57'41"
7081	3637006.943	5308496.601	976.250	N42°28'06.04012"	W92°03'52.71538"	874.846	0.9999513890	0.9999581817	0.9999095727	0°58'22"
7082	3651562.444	5176239.651	966.230	N42°30'48.21287"	W92°33'15.14821"	862.335	0.9999489756	0.9999587799	0.9999077576	0°38'28"
7083	3667059.428	5176107.966	886.870	N42°33'21.30467"	W92°33'14.59110"	782.963	0.9999472610	0.9999625740	0.9999098370	0°38'28"
7084	3682886.919	5176033.604	929.677	N42°35'57.65389"	W92°33'13.21736"	825.803	0.9999460754	0.9999605265	0.9999066041	0°38'29"
7085	3698590.983	5175320.915	979.050	N42°38'32.85340"	W92°33'20.40063"	875.201	0.9999454641	0.9999581655	0.9999036319	0°38'24"
7086	3688397.672	5178667.856	894.732	N42°36'51.79497"	W92°32'37.16349"	790.909	0.9999457982	0.9999621944	0.9999079947	0°38'53"
7087	3698586.900	5178543.639	902.475	N42°38'32.45522"	W92°32'37.28320"	798.679	0.9999454650	0.9999618231	0.9999072902	0°38'53"
7088	3688303.220	5181180.609	890.119	N42°36'50.57984"	W92°32'03.57401"	786.334	0.9999458036	0.9999624131	0.9999082188	0°39'16"
7089	3698617.254	5181076.109	901.666	N42°38'32.47067"	W92°32'03.39579"	797.912	0.9999454649	0.9999618598	0.9999073268	0°39'16"
7090	3667111.084	5187369.012	939.550	N42°33'20.54271"	W92°30'44.12649"	835.802	0.9999472682	0.9999600483	0.9999073186	0°40'10"
7091	3672317.006	5188314.553	871.513	N42°34'11.85631"	W92°30'30.67757"	767.782	0.9999468152	0.9999632997	0.9999101168	0°40'19"
7092	3700301.050	5186349.935	883.131	N42°38'48.50148"	W92°30'52.57306"	779.474	0.9999454338	0.9999627411	0.9999081769	0°40'04"
7093	3654759.263	5192139.964	975.616	N42°31'17.97846"	W92°29'42.34491"	871.952	0.9999485993	0.9999583203	0.9999069217	0°40'52"
7094	3656954.678	5188837.085	967.088	N42°31'40.04985"	W92°30'26.10552"	863.368	0.9999483337	0.9999587306	0.9999070664	0°40'22"
7095	3661880.956	5192042.763	970.971	N42°32'28.33652"	W92°29'42.51245"	867.297	0.9999477923	0.9999585428	0.9999063373	0°40'52"
7097	3693629.973	5191795.694	885.974	N42°37'41.97351"	W92°29'40.76914"	782.379	0.9999456024	0.9999626022	0.9999082067	0°40'53"
7098	3641051.487	5200398.896	944.903	N42°29'01.59134"	W92°27'54.30111"	841.456	0.9999504931	0.9999597777	0.9999102728	0°42'05"
7100	3658141.743	5200044.269	966.750	N42°31'50.44812"	W92°27'56.24297"	863.220	0.9999482125	0.9999587377	0.9999069523	0°42'04"
7101	3669854.278	5197667.344	868.704	N42°33'46.42766"	W92°28'26.08891"	765.108	0.9999470320	0.9999634274	0.9999104613	0°41'44"
7102	3672657.023	5202528.410	875.973	N42°34'13.52437"	W92°27'20.67184"	772.459	0.9999468015	0.9999630761	0.9999098795	0°42'28"
7103	3677928.758	5202440.703	874.428	N42°35'05.60757"	W92°27'20.97372"	770.923	0.9999464066	0.9999631496	0.9999095582	0°42'28"
7104	3694899.897	5202276.180	885.296	N42°37'53.26231"	W92°27'20.37036"	781.875	0.9999455665	0.9999626263	0.9999081948	0°42'28"

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7105	3698779.109	5191826.173	880.298	N42°38'32.83126"	W92°29'39.54205"	776.726	0.9999454642	0.9999628724	0.9999083386	0°40'54"
7106	3698825.987	5198176.091	884.326	N42°38'32.53937"	W92°28'14.57733"	780.861	0.9999454648	0.9999626748	0.9999081416	0°41'51"
7108	3646495.273	5206100.726	949.167	N42°29'54.66728"	W92°26'37.30092"	845.825	0.9999497045	0.9999595690	0.9999092755	0°42'57"
7109	3646376.047	5212158.791	937.443	N42°29'52.73390"	W92°25'16.45599"	834.264	0.9999497321	0.9999601216	0.9999098556	0°43'52"
7110	3667344.556	5207850.959	866.487	N42°33'20.39396"	W92°26'10.43599"	763.074	0.9999472696	0.9999635246	0.9999107961	0°43'15"
7111	3672474.307	5213110.298	882.353	N42°34'10.40409"	W92°24'59.28982"	779.045	0.9999468271	0.9999627613	0.9999095904	0°44'04"
7112	3680903.297	5212994.479	932.441	N42°35'33.67707"	W92°24'59.39380"	829.149	0.9999462201	0.9999603665	0.9999065888	0°44'04"
7113	3688614.463	5210391.900	934.492	N42°36'50.17288"	W92°25'32.87643"	831.180	0.9999458055	0.9999602695	0.9999060772	0°43'41"
7114	3698846.927	5207454.112	901.112	N42°38'31.61166"	W92°26'10.44170"	797.801	0.9999454668	0.9999618651	0.9999073340	0°43'15"
7115	3672925.758	5218484.967	897.804	N42°34'14.17660"	W92°23'47.38675"	794.619	0.9999467961	0.9999620169	0.9999088150	0°44'52"
7116	3699307.259	5218192.290	948.973	N42°38'34.79882"	W92°23'46.69497"	845.852	0.9999454600	0.9999595684	0.9999050306	0°44'53"
7117	3663850.612	5223804.446	858.956	N42°32'43.84401"	W92°22'37.90982"	755.943	0.9999476299	0.9999638654	0.9999114973	0°45'40"
7118	3681045.276	5228877.825	962.796	N42°35'33.01384"	W92°21'27.03397"	859.881	0.9999462243	0.9999588976	0.9999051241	0°46'28"
7119	3667771.591	5229124.910	896.211	N42°33'21.86958"	W92°21'26.12961"	793.335	0.9999472557	0.9999620782	0.9999093359	0°46'28"
7120	3699238.544	5228793.647	952.588	N42°38'32.72851"	W92°21'24.87047"	849.673	0.9999454644	0.9999593857	0.9999048523	0°46'29"
7121	3662697.790	5234554.344	910.035	N42°32'31.02155"	W92°20'14.52211"	807.352	0.9999477638	0.9999614081	0.9999091739	0°47'17"
7122	3652157.358	5240155.156	879.375	N42°30'46.14039"	W92°19'01.67983"	776.914	0.9999490025	0.9999628629	0.9999118673	0°48'06"
7123	3667293.943	5239726.224	946.271	N42°33'15.71168"	W92°19'04.58066"	843.720	0.9999473140	0.9999596699	0.9999069860	0°48'04"
7124	3683763.711	5239570.311	998.865	N42°35'58.41281"	W92°19'03.58609"	896.242	0.9999460711	0.9999571596	0.9999032330	0°48'05"
7126	3657569.599	5245252.625	945.219	N42°31'38.88969"	W92°17'52.59523"	842.859	0.9999483474	0.9999597109	0.9999080603	0°48'53"
7127	3668035.479	5250429.213	978.775	N42°33'21.53302"	W92°16'41.44574"	876.498	0.9999472589	0.9999581031	0.9999053642	0°49'41"
7128	3699488.033	5250009.506	1007.529	N42°38'32.26136"	W92°16'40.97881"	905.100	0.9999454654	0.9999567364	0.9999022042	0°49'41"
7129	3641780.579	5256121.640	854.213	N42°29'01.38199"	W92°15'30.54504"	752.127	0.9999504963	0.9999640476	0.9999145457	0°50'29"
7130	3653692.580	5255907.049	903.967	N42°30'59.07356"	W92°15'31.07433"	801.826	0.9999488359	0.9999616721	0.9999105100	0°50'29"
7131	3657938.601	5255956.075	952.625	N42°31'41.00628"	W92°15'29.58695"	850.475	0.9999483224	0.9999593468	0.9999076714	0°50'30"
7132	3684083.728	5255544.959	976.119	N42°35'59.31142"	W92°15'29.94853"	873.876	0.9999460659	0.9999582287	0.9999042969	0°50'30"
7133	3668167.952	5260965.471	914.203	N42°33'21.31321"	W92°14'20.65244"	812.128	0.9999472609	0.9999611799	0.9999084429	0°51'17"
7134	3699645.814	5260522.026	1001.681	N42°38'32.29484"	W92°14'20.30334"	899.483	0.9999454653	0.9999570049	0.9999024726	0°51'17"
7135	3652341.392	5260848.487	870.310	N42°30'45.00526"	W92°14'25.36614"	768.252	0.9999490173	0.9999632769	0.9999122961	0°51'13"
7136	3657657.723	5260911.904	879.807	N42°31'37.50753"	W92°14'23.46137"	777.738	0.9999483637	0.9999628236	0.9999111892	0°51'15"
7138	3652479.657	5269772.413	955.470	N42°30'45.04024"	W92°12'26.19571"	853.552	0.9999490169	0.9999591997	0.9999082187	0°52'34"
7139	3657780.057	5269086.470	895.921	N42°31'37.49772"	W92°12'34.27334"	793.983	0.9999483638	0.9999620471	0.9999104129	0°52'29"
7140	3668224.937	5271558.055	970.811	N42°33'20.29108"	W92°11'59.12244"	868.911	0.9999472706	0.9999584658	0.9999057385	0°52'52"
7141	3684110.909	5271399.047	960.642	N42°35'57.22517"	W92°11'57.98144"	858.712	0.9999460779	0.9999589535	0.9999050336	0°52'53"
7142	3699709.143	5269956.818	1005.074	N42°38'31.51085"	W92°12'14.06575"	903.080	0.9999454670	0.9999568330	0.9999023024	0°52'42"
7143	3652555.985	5287597.162	987.755	N42°30'43.03287"	W92°08'28.20625"	886.097	0.9999490431	0.9999576441	0.9999066894	0°55'15"

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Point ID	Northing sft	Easting sft	Elevation sft	Latitude (Global)	Longitude (Global)	Height (Global)	Projection Scale Factor	Height Scale Factor	Combined Scale Factor	Mapping Angle
7145	3668282.804	5282133.996	988.990	N42°33'19.23160"	W92°09'37.81592"	887.231	0.9999472806	0.9999575901	0.9999048729	0°54'28"
7146	3673667.621	5284618.944	949.550	N42°34'12.02822"	W92°09'03.46920"	847.819	0.9999468137	0.9999594740	0.9999062899	0°54'51"
7148	3681641.254	5284543.195	961.324	N42°35'30.79709"	W92°09'02.78075"	859.593	0.9999462384	0.9999589113	0.9999051520	0°54'52"
7149	3699953.718	5280390.811	996.553	N42°38'32.32277"	W92°09'54.42303"	894.768	0.9999454653	0.9999572303	0.9999026979	0°54'17"
7150	3668444.459	5291950.507	984.114	N42°33'19.27097"	W92°07'26.63399"	882.493	0.9999472802	0.9999578166	0.9999050990	0°55'57"
7151	3699833.152	5292226.546	965.036	N42°38'29.25546"	W92°07'16.10586"	863.460	0.9999454719	0.9999587267	0.9999042009	0°56'04"
7152	3652813.100	5303502.477	980.550	N42°30'42.99226"	W92°04'55.80572"	879.089	0.9999490437	0.9999579791	0.9999070249	0°57'39"
7153	3668481.865	5300630.623	925.620	N42°33'18.22858"	W92°05'30.66162"	824.118	0.9999472901	0.9999606068	0.9999078990	0°57'16"
7154	3684583.371	5303114.355	989.420	N42°35'56.85385"	W92°04'53.87044"	887.973	0.9999460801	0.9999575549	0.9999036372	0°57'41"
7155	3700232.671	5302885.521	975.950	N42°38'31.45953"	W92°04'53.41892"	874.518	0.9999454671	0.9999581982	0.9999036676	0°57'41"
7157	3639662.070	5248133.910	843.074	N42°28'41.60127"	W92°17'17.54593"	740.859	0.9999508072	0.9999645862	0.9999153951	0°49'17"
7158	3621418.386	5236919.104	921.213	N42°25'42.95739"	W92°19'50.56188"	818.811	0.9999540280	0.9999608599	0.9999148898	0°47'33"
7159	3616912.930	5265823.244	822.140	N42°24'54.32481"	W92°13'26.08895"	720.198	0.9999550338	0.9999655735	0.9999206088	0°51'53"
7161	3642688.200	5218914.671	863.490	N42°29'15.44497"	W92°23'46.91984"	760.532	0.9999502809	0.9999636459	0.9999139286	0°44'53"
7162	3687874.201	5194545.984	876.947	N42°36'44.79527"	W92°29'04.90530"	773.362	0.9999458302	0.9999630331	0.9999088653	0°41'17"
7163	3664415.908	5219335.382	862.104	N42°32'50.00979"	W92°23'37.51028"	758.966	0.9999475670	0.9999637210	0.9999112898	0°44'59"
7164	3683143.189	5203033.124	889.031	N42°35'57.04156"	W92°27'12.19194"	785.556	0.9999460790	0.9999624502	0.9999085312	0°42'34"
7165	3616496.569	5271762.942	907.495	N42°24'49.31893"	W92°12'06.99742"	805.653	0.9999551405	0.9999614888	0.9999166310	0°52'47"
7166	3589826.981	5282850.538	826.382	N42°20'24.18372"	W92°09'44.82807"	724.655	0.9999616245	0.9999653602	0.9999269860	0°54'23"
7167	3617077.530	5311475.085	950.553	N42°24'48.69268"	W92°03'17.52470"	849.227	0.9999551539	0.9999594060	0.9999145617	0°58'46"
7169	3615815.742	5235185.374	957.876	N42°24'47.85244"	W92°20'14.70556"	855.425	0.9999551718	0.9999591097	0.9999142833	0°47'17"
7170	3657822.749	5227488.841	855.963	N42°31'43.81688"	W92°21'49.77489"	753.101	0.9999482895	0.9999640012	0.9999122926	0°46'12"
7171	3652072.594	5219934.451	892.833	N42°30'48.00934"	W92°23'31.66848"	789.808	0.9999489782	0.9999622466	0.9999112267	0°45'03"
7172	3651777.759	5196212.330	947.372	N42°30'48.04600"	W92°28'48.44524"	843.787	0.9999489777	0.9999596664	0.9999086462	0°41'28"
7174	3557882.620	5235808.250	850.383	N42°15'15.51824"	W92°20'17.01741"	747.574	0.9999712359	0.9999642643	0.9999355012	0°47'15"
7175	3558087.627	5246349.976	844.690	N42°15'16.08798"	W92°17'56.81381"	742.061	0.9999712161	0.9999645278	0.9999357449	0°48'50"
7182	3646456.152	5227968.262	861.720	N42°29'51.47819"	W92°21'45.41477"	758.977	0.9999497500	0.9999637202	0.9999134721	0°46'15"
7183	3653133.718	5221010.932	877.880	N42°30'58.35117"	W92°23'17.10954"	774.874	0.9999488451	0.9999629605	0.9999118074	0°45'13"
7201	3668121.525	5192870.076	867.306	N42°33'29.88213"	W92°29'30.46734"	763.638	0.9999471811	0.9999634977	0.9999106808	0°41'00"
7208	3688016.580	5299041.180	1000.020	N42°36'31.43520"	W92°05'47.56311"	898.526	0.9999458944	0.9999570505	0.9999029472	0°57'04"
7209	3645204.269	5233109.846	866.743	N42°29'38.42353"	W92°20'37.01344"	764.151	0.9999499389	0.9999634729	0.9999134136	0°47'01"
7211	3675107.053	5190253.319	868.440	N42°34'39.19026"	W92°30'04.32780"	764.740	0.9999465990	0.9999634451	0.9999100460	0°40'37"
7212	3688186.964	5189693.078	906.320	N42°36'48.45525"	W92°30'09.75324"	802.664	0.9999458133	0.9999616326	0.9999074479	0°40'33"
7213	3698713.739	5189171.178	881.820	N42°38'32.49602"	W92°30'15.07434"	778.204	0.9999454649	0.9999628018	0.9999082687	0°40'30"
7214	3647096.656	5235873.920	845.890	N42°29'56.74062"	W92°19'59.77214"	743.354	0.9999496750	0.9999644670	0.9999141438	0°47'27"
7215	3626895.533	5248897.670	838.350	N42°26'35.39073"	W92°17'09.80089"	736.166	0.9999530055	0.9999648103	0.9999178175	0°49'22"

**2020 Black Hawk County, Iowa
US Survey Feet**

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Point ID	Northing	Easting	Elevation	Latitude	Longitude	Height	Projection	Height	Combined	Mapping
	sft	sft	sft	(Global)	(Global)	(Global)	Scale Factor	Scale Factor	Scale Factor	Angle
7217	3673541.598	5279629.057	954.542	N42°34'11.56462"	W92°10'10.17591"	852.744	0.9999468176	0.9999592386	0.9999060583	0°54'06"
7220	3660227.147	5204546.602	876.823	N42°32'10.49861"	W92°26'55.76672"	773.367	0.9999479859	0.9999630325	0.9999110204	0°42'45"
7305	3596761.266	5309082.733	923.636	N42°21'28.42696"	W92°03'54.01053"	822.272	0.9999599030	0.9999606942	0.9999205987	0°58'21"
7309	3637525.480	5229560.278	950.065	N42°28'23.05200"	W92°21'25.77608"	847.457	0.9999511070	0.9999594908	0.9999105998	0°46'28"
7310	3621273.780	5200467.350	956.759	N42°25'46.22190"	W92°27'56.61685"	853.402	0.9999539625	0.9999592065	0.9999131709	0°42'04"
7311	3616195.595	5248268.922	919.627	N42°24'49.79010"	W92°17'20.23037"	817.406	0.9999551304	0.9999609270	0.9999160592	0°49'15"
7403	3626362.330	5212569.420	871.520	N42°26'34.99132"	W92°25'14.38577"	768.492	0.9999530130	0.9999632652	0.9999162799	0°43'53"
IAWA	3635606.843	5220484.488	893.098	N42°28'05.29439"	W92°23'27.20906"	790.250	0.9999514015	0.9999622253	0.9999136286	0°45'06"