

Table 2. Dominant soil types at each location

Location	Soil 1 (top- & sub-soil texture) †	Soil 2 (top- & sub-soil texture)	Soil 3 (top- & sub-soil texture)
Ames IA	silt loam - silt loam (37%)	clay loam - silt loam (25%)	silt clay loam - silt clay loam (14%)
Beatrice NE	silt clay loam - silt clay loam (65%)	silty clay - silt clay loam (19%)	silt loam - silt loam (17%)
Bondville IL	silt clay loam - silt loam (18%)	silt loam - silt clay loam (17%)	silt clay loam - silt clay loam (16%)
Butlerville IN	silt loam - silt loam (67%)	silt loam - silt clay loam (11%)	
Ceresco MI	sandy loam - sandy loam (39%)	silt loam - silt loam (36%)	silt loam - sandy loam (25%)
Clay Center NE	silt loam - silt clay loam (46%)	silt loam - silt loam (33%)	silt clay loam - silt clay loam (21%)
Columbia City IN	silt clay loam - silty clay (14%)	silt clay loam - clay loam (12%)	silt loam - silt loam (12%)
Concord NE	silt loam - silt loam (61%)	silt clay loam - silt clay loam (39%)	-
Crawfordsville IA	silt loam - silt clay loam (37%)	silt clay loam - silt clay loam (31%)	silt loam - silt loam (12%)
Custar OH	clay loam - clay (15%)	clay loam - clay loam (11%)	silt loam - clay loam (10%)
Davis IN	silt loam - silt loam (26%)	silt clay loam - silty clay (10%)	silt loam - silt clay loam (9%)
Dazey ND	silt loam - silt loam (100%)	-	-
Eldred MN	silt clay loam - silt clay loam (39%)	silty clay - silty clay (36%)	silt loam - silt loam (26%)
Freeport IL	silt loam - silt loam (52%)	silt loam - silt clay loam (48%)	-
Holdrege NE	silt loam - silt loam (100%)	-	-
Hutchinson KS	silt clay loam - silt clay loam (44%)	silt loam - silt loam (33%)	silt loam - silt clay loam (23%)
Kanawha IA	clay loam - silt loam (38%)	silt loam - silt loam (20%)	
Lamberton MN	clay loam - silt loam (36%)	silt loam - silt loam (36%)	
Lewis IA	silt clay loam - silt clay loam (82%)	silt loam - silt loam (18%)	-
Manhattan KS	silt clay loam - silt clay loam (41%)	silt clay loam - silty clay (32%)	silt loam - silt loam (27%)
McCook NE	silt loam - silt loam (100%)	-	-
Mead NE	silt clay loam - silt clay loam (46%)	silt loam - silt loam (37%)	silt clay loam - silt loam (17%)
Monroe City MO	silt loam - silty clay (24%)	silt loam - silt clay loam (20%)	silt clay loam - silt clay loam (14%)
Nashua IA	silt loam - silt loam (52%)	silt clay loam - silt loam (26%)	
North Platte NE	silt loam - silt loam (100%)	-	-
Olney IL	silt loam - silt clay loam (37%)	silt loam - silt loam (30%)	
Peoria IL	silt loam - silt clay loam (45%)	silt clay loam - silt clay loam (15%)	silt loam - silt loam (14%)
Scandia KS	silt clay loam - silt clay loam (51%)	silt loam - silt clay loam (26%)	silt loam - silt loam (23%)
Silverlake KS	silt clay loam - silt clay loam (38%)	silt loam - silt loam (31%)	silt clay loam - silty clay (31%)
South Charleston OH	silt loam - silt loam (32%)	silt loam - clay loam (20%)	clay loam - clay loam (12%)
Springfield IL	silt loam - silt clay loam (45%)	silt clay loam - silt clay loam (17%)	
St Joseph MO	silt clay loam - silt clay loam (56%)	silt loam - silt loam (30%)	silt loam - silt clay loam (15%)
Sutherland IA	silt clay loam - silt loam (40%)	silt clay loam - silt clay loam (34%)	silt loam - silt loam (26%)
Waseca MN	silt loam - silt loam (41%)	clay loam - silt loam (26%)	
West Lafayette IN	silt loam - silt loam (41%)	silt clay loam - silt loam (10%)	silt clay loam - silt clay loam (7%)
Wooster OH	silt loam - silt clay loam (33%)	silt loam - silt loam (29%)	

† Data were retrieved from GSSURGO soil database (NRCS, Soil Division). Only soils under dryland crop cultivation were considered. Soil data were used only for rainfed corn simulations (soil data were not needed for simulation of irrigated crops). ‡ Soil texture in the topsoil (0-1 ft) and subsoil (2-4 ft) and associated prevalence of each soil type (in %) at each location. (source: Global Yield Gap Atlas; www.yieldgap.org).