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| **Table 1: Field sites for soil sampling** |   |   |
| **Site** | **Location** | **Coordinates** | **Soil description (cite)** |
| Farming Systems Trial (Rodale Institute) | Kutztown, PA | 40° 33' N, 75° 43' W | Clarksburg silt loam and Berks-Weikert Complex (silt loam), 3-8% slopes |
| A-Frame Farm (Carmen Fernholz) | Madison, MN | 45° 00' N, 96° 08' W | Normania loam, 0-3% slopes |
| Willow Lake Farm (Tony Thompson) | Windom, MN | 43° 44' N, 95° 04' W | Clarion loam, 4-8% slopes, eroded |
| Southwest Research and Outreach Center (University of MN) | Lamberton, MN | 44° 14' N, 95° 19' W | Ves loam, Normania loam, and Webster clay loam |
| Wisconsin Integrated Cropping Systems Trial (University of WI) | Arlington, WI | 43° 18' N, 89° 19' W | Plano silt loam, 0-2% slopes |

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| **Table 2: Sample Characteristics** |
| **Sample** | **Site** | **Location** | **Rotation** | **Crop** |
| F1 | A-Frame Farm (Carmen Fernholz) | Madison, MN | Organic | corn |
| F2 |   |   | Conventional | corn |
| L1 | Variable Input Crop Management Study | Lamberton, MN | 2-year conventional | soy |
| L2 |  |  | 2-year conventional | corn |
| L3 |  |  | 4-year conventional | soy |
| L4 |  |  | 4-year conventional | alfalfa |
| L5 |  |  | 4-year organic | soy |
| L6 |  |  | 4-year organic | alfalfa |
| L7 |   |   | 4-year organic | corn |
| R1 | Farming Systems Trial (Rodale Institute) | Kutztown, PA | Conventional | soy |
| R2 |  |  | Conventional | corn |
| R3 |  |  | 4-year legume-based organic | soy |
| R4 |   |   | 8-year manure-based organic | corn |
| T1 | Willow Creek Farm (Tony Thompson) | Windom, MN | Organic | soy |
| T2 |  |  | Conventional strip-till | soy |
| T3 |   |   | Prairie remnant | prairie |
| W1 | Wisconsin Integrated Cropping Systems Trial | Arlington, WI | Conventional continuous corn | corn |
| W2 |  |  | Conventional c/s | soy |
| W3 |  |  | Conventional c/s | corn |
| W4 |  |  | Conventional strip-till | corn |
| W5 |  |  | Organic | alfalfa |
| W6 |   |   | High-diversity prairie planting | prairie |