Table 1. Management activities in JBT01 field

| Year | Date | Crop | Activity |
| --- | --- | --- | --- |
| 2016 | End of May/ early June | Silage corn | Chisel plowed |
|  | End of May/ early June |  | Applied starter fertilizer and 200 lb. potash/A at plant |
|  | June/July |  | Spread ~200 lb./A of urea |
|  | Fall |  | Corn harvested |
|  | Fall |  | No cover crop |
|  |  |  |  |
|  |  |  |  |
| 2017 | May | Soybeans | Applied starter fertilizer at plant |
|  | ~10/3 |  | Soybeans harvested |
|  | ~ 10/24 |  | Tilled |
|  | ~11/15 |  | Manure spread |
|  | Fall |  | No cover crop |
|  |  |  |  |
|  |  |  |  |
| 2018 | 5/9–16 | Silage corn | Tilled and planted in corn |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Table 2. Management activities in JBT05 field (Maquam Shore Rd.)

| Year | Date | Crop | Activity |
| --- | --- | --- | --- |
| 2016 | May | Silage corn | Minimal tillage before planting |
|  | ? |  | Pop-up fertilizer at plant |
|  | Fall |  | Corn harvested |
|  | Fall |  | Manure injected |
|  | Fall |  | Winter rye cover crop seeded |
|  |  |  |  |
|  |  |  |  |
| 2017 | May | Silage corn | Pop-up fertilizer at plant |
|  | ~10/10 |  | Corn harvested |
|  | ~10/10 |  | Manure spread |
|  | ~10/24 |  | Manure injected on a portion of the field |
|  | Fall |  | Winter rye cover crop seeded |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 2018 | 5/16-23 | Silage corn | Tilled |
|  | 5/23-31 |  | Planted to corn |
|  | 6/20-29 |  | May have spread N fertilizer on the surface |
|  | 10/12-26 |  | Corn chopped |
|  | 11/2 |  | Corn residue on ground |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 2019 | 6/11-17 | Silage corn | Corn seeded with no-till planter |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Table 3. Management activities in JBT06 field Dunsmore Rd.)

| Year | Date | Crop | Activity |
| --- | --- | --- | --- |
| 2016 | May | Silage corn | Minimal tillage before planting |
|  | ? |  | Pop-up fertilizer at plant |
|  | Fall |  | Corn harvested |
|  | Fall |  | Manure injected |
|  | Fall |  | Winter rye cover crop seeded |
|  |  |  |  |
|  |  |  |  |
| 2017 | May | Silage corn | Pop-up fertilizer at plant |
|  | ~10/10 |  | Corn harvested |
|  | ~10/17-24 |  | Manure injected |
|  | Fall |  | Winter rye cover crop seeded |
|  |  |  |  |
|  |  |  |  |
| 2018 | 5/16-/23 | Silage corn | Tilled |
|  | 5/23-31 |  | Planted to corn |
|  | 6/20 |  | N fertilizer on the surface spread later in the day |
|  | 9/20-27 |  | Corn chopped |
|  | 10/4-12 |  | Manure spread on a portion of the field |
|  | 10/26 |  | Remaining corn being cut |
|  | 11/2 |  | Heavy residue on ground |
|  |  |  |  |
|  |  |  |  |
| 2019 | 6/11-17 | Silage corn | Corn seeded with no-till planter |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Table 4. Management activities in JBT07 field (Lord Rd.)

| Year | Date | Crop | Activity |
| --- | --- | --- | --- |
| 2016 | May | Silage corn | 5 gal/A pop-up applied at plant |
|  | 7/4 |  | 300 lb./A urea-ammonium sulfate-potash spin-spread |
|  | Fall |  | Corn harvested |
|  | Fall |  | 6,000 gal/A liquid manure spread |
|  | Fall |  | Fall tillage |
|  | Fall |  | No cover crop |
|  |  |  |  |
|  |  |  |  |
| 2017 | May | Silage corn | 10 gal/A starter and potash at plant |
|  | Summer |  | Liquid N+P applied |
|  | ~10/10-17 |  | Corn harvested |
|  | Fall |  | Fall tillage |
|  | Fall |  | No cover crop |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 2018 | 5/16-5/23 | Silage corn | Tilled |
|  | 5/23-31 |  | Planted to corn. Assume manure was incorporated? |
|  | 6/20 |  | N fertilizer on the surface spread later in the day |
|  | 9/20 |  | Corn chopped |
|  | 12/2 |  | Manure observed under snow |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 2019 | 6/5-11 | Soybean | Disced and planted |
|  | 7/10 |  | Some material being spread |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Table 5. Management activities in JBT11 field

| Year | Date | Crop | Activity |
| --- | --- | --- | --- |
| 2016 |  | Alfalfa hay | First cut |
|  |  |  | 200 lb./A potash-ammonia sulfate-boron after 1st cut |
|  |  |  | Second cut |
|  |  |  | 200 lb./A potash-ammonia sulfate-boron after 2nd cut |
|  |  |  |  |
|  |  |  |  |
| 2017 | ~7/5 | Alfalfa hay | First cut |
|  | July |  | 250 lb./A potash-ammonia sulfate-boron after 1st cut |
|  | ~8/30 |  | Second cut |
|  | August |  | 250 lb./A potash-ammonia sulfate-boron after 2nd cut |
|  | ~10/24 |  | Third cut |
|  |  |  |  |
|  |  |  |  |
| 2018 | 5/23-31 | Alfalfa hay | Alfalfa waist high. Smells like manure was injected. |
|  | 6/20-22 |  | 1st cut (tall) |
|  | 6/22-29 |  | Manure applied to a portion of the field |
|  | 6/29-7/6 |  | Manure applied to the rest of the field? |
|  | 7/27-8/2 |  | 2nd cut |
|  | 8/22-31 |  | 3rd cut |
|  | 10/12 |  | 4th cut |
|  |  |  |  |
|  |  |  |  |
| 2019 | 7/1-10 | Alfalfa hay | 1st cut |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Table 6. Management activities in JBT13 field

| Year | Date | Crop | Activity |
| --- | --- | --- | --- |
| 2016 | May | Silage corn | Chisel plowed |
|  | June |  | Spread 6,000 gal/A liquid manure at plant |
|  | July |  | Spread 300 lb./A ammonia nitrate/urea mix (top dress) |
|  | ? |  | Corn harvested |
|  | Fall |  | Winter rye cover crop seeded |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 2017 | 5/10-11 | Silage corn | Spread 6,000 gal/A liquid manure at plant |
|  | ~10/11 |  | Corn harvested |
|  | Fall |  | Winter rye cover crop |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 2018 | 5/1-9 | Silage corn | Lime applied |
|  | 5/15 |  | Harrowed, manure applied, and vertically tilled |
|  | 5/23-31 |  | Planted to corn |
|  | 6/13-20 |  | Pelletized fertilizer applied to surface |
|  | ? |  | Corn harvested |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Table 7. Management activities in JBT14 field

| Year | Date | Crop | Activity |
| --- | --- | --- | --- |
| 2016 | May | Silage corn | Chisel plowed |
|  | June |  | Spread 6,000 gal/A liquid manure at plant |
|  | July |  | Spread 300 lb./A ammonia nitrate/urea mix (top dress) |
|  | Fall |  | Corn harvested |
|  |  |  | Winter rye cover crop drilled |
|  |  |  |  |
| 2017 | 5/10-11 | Silage corn | Spread 6,000 gal/A liquid manure at plant |
|  | ~10/11 |  | Corn harvested |
|  | Fall |  | Winter rye cover crop drilled |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 2018 | 4/24-5/1 | Silage corn | Appears to have been limed |
|  | 5/1-9 |  | Lime applied |
|  | 5/15 |  | Harrowed, manure applied, and vertically tilled |
|  | 5/23-31 |  | Planted to corn |
|  | 6/13-20 |  | Pelletized fertilizer applied to surface |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Table 8. Management activities in JBT18 field

| Year | Date | Crop | Activity |
| --- | --- | --- | --- |
| 2016 | Mid-May | Clover/grass hay | 12 ton/A liquid manure |
|  | Fall |  |  |
|  | Fall |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 2017 | ~8/30 | Clover/grass hay | 1st cut |
|  | ~10/24 |  | 2nd cut (southern half) |
|  | ~10/24 |  | 2nd cut (northern half) |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 2018 | 5/20 | Silage corn | 0.5 -1.0 ton/A composted chicken manure spread |
|  | <5/31 |  | Tilled and planted to corn |
|  | 6/29-7/6 |  | Corn cultivated between rows |
|  | 12/29/18 - 1/10/19 |  | Corn cut |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 2019 | 6/17-26 | Silage corn | Planted |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |