

Normal Year Imagery Used in Sizing Sampling Units With No-pre1985 Drainage Manipulation

| Weather Station Polygon | Station ID | Primary Year | Secondary Year |
|-------------------------------|------------|--------------|----------------|
| Hawarden | IA3718 | 2012 | 2006 |
| Sioux City Gateway AP | IA7708 | 2012 | 2006 |
| Browns Valley | MN1063 | 2010 | 2006 |
| Canby | MN1263 | 2010 | 2008 |
| Luverne | MN4937 | 2012 | 2008 |
| Madison Sewage Plant | MN4994 | 2014 | 2012 |
| Pipestone | MN6565 | 2008 | 2006 |
| Wheaton | MN8907 | 2014 | 2012 |
| Forbes 10 NW | ND3064 | 2006 | 2012 |
| Forman 5 SSE | ND3117 | 2014 | 2012 |
| FULLERTON 1 ESE | ND3287 | 2012 | 2010 |
| OAKES 2 S | ND6620 | 2010 | 2008 |
| Aberdeen WSO AP | SD0020 | 2008 | 2006 |
| Academy 2 NE | SD0043 | 2012 | 2003 |
| Alexandria | SD0128 | 2012 | 2006 |
| Arlington 1 W | SD0281 | 2008 | 2005 |
| Armour | SD0296 | 2008 | SO |
| Astoria 4 S | SD0422 | 2006 | SO |
| Big Stone City 2 NW | SD0662 | 2014 | 2010 |
| Blunt | SD0760 | 2008 | 2014 |
| Bonesteel | SD0778 | SO | SO |
| Bridgewater | SD1032 | 2012 | 2006 |
| Britton | SD1049 | 2014 | 2008 |
| Brookings 2 NE | SD1076 | 2006 | 2014 |
| Bryant 1 NE | SD1102 | 2014 | 2008 |
| Canton | SD1392 | 2006 | 2004 |
| Castlewood | SD1519 | 2006 | 2005 |
| Centerville 6 SE | SD1579 | 2006 | 2004 |
| Chamberlain 5 S | SD1621 | 2012 | SO |
| Chester | SD1634 | 2008 | 2014 |
| Clark | SD1739 | 2008 | 2003 |
| Clear Lake | SD1777 | 2008 | 2006 |
| Colton | SD1851 | 2006 | 2005 |
| Columbia 8 N | SD1873 | 2014 | 2008 |
| Conde | SD1917 | 2006 | 2014 |
| De Smet | SD2302 | 2014 | 2008 |
| Eureka | SD2797 | 2014 | 2012 |
| Faulkton 1 NW | SD2927 | 2014 | 2012 |
| Flandreau | SD2984 | 2006 | 2014 |
| Forestburg 3 NE | SD3029 | 2008 | 2014 |
| Gann Valley 4 NW | SD3217 | 2012 | SO |
| Gettysburg | SD3294 | 2012 | 2010 |
| Harrold 12 SSW | SD3608 | 2012 | 2014 |
| Highmore 1 W | SD3832 | 2014 | 2012 |
| Highmore 23 N | SD3838 | 2008 | 2014 |
| Howard | SD4037 | 2008 | SO |
| Huron WSO AP | SD4127 | 2014 | 2012 |
| Ipswich | SD4206 | 2010 | 2008 |
| Iroquois | SD4254 | 2014 | 2008 |
| Lake Sharpe Project | SD4766 | 2012 | SO |
| Leola | SD4891 | 2012 | 2008 |
| Madison 2 SE | SD5090 | 2014 | 2008 |
| Marion | SD5228 | 2006 | 2008 |
| Mellette 4 W | SD5456 | 2008 | 2006 |
| Menno | SD5481 | 2008 | 2004 |
| Milbank 2 SSW | SD5536 | 2010 | 2006 |
| Miller | SD5561 | 2008 | 2003 |
| Mitchell 2 N | SD5671 | 2012 | 2008 |
| Montrose | SD5733 | 2006 | 2008 |
| Onaka 2 N | SD6282 | 2014 | 2012 |
| Onida 4 NW | SD6292 | 2012 | SO |
| Orient | SD6335 | 2014 | 2012 |
| Pickstown | SD6574 | 2008 | 2006 |
| Platte | SD6669 | 2004 | 2003 |
| Pollock | SD6712 | 2012 | 2010 |
| Raymond 3 NE | SD7007 | 2008 | 2014 |
| Redfield | SD7052 | 2014 | SO |
| Roscoe | SD7277 | 2008 | 2004 |
| Selby | SD7545 | 2012 | 2008 |
| Sioux Falls AP | SD7667 | 2006 | 2008 |
| Sisseton | SD7742 | 2014 | 2006 |
| Stephan 2 NW | SD7992 | 2014 | 2004 |
| Summit 1 W | SD8116 | 2014 | 2006 |
| Tyndall | SD8472 | 2012 | 2008 |
| Vermillion 2 SE | SD8622 | 2006 | 2008 |
| Victor 4 NNE | SD8652 | 2014 | 2006 |
| Wagner | SD8767 | 2008 | 2006 |
| Watertown Regional AP | SD8932 | 2008 | 2006 |
| Waubay Nat'l. Wildlife Refuge | SD8980 | 2012 | 2010 |
| Webster | SD9004 | 2010 | 2008 |
| Wentworth 2 WNW | SD9042 | 2006 | 2014 |
| Wessington 2 SE | SD9064 | 2014 | 2004 |
| Wessington Springs | SD9070 | 2008 | 2004 |
| Westport | SD9138 | 2008 | 2014 |
| White Lake | SD9232 | 2012 | SO |
| Wilmot | SD9337 | 2010 | 2006 |
| Yankton | SD9502 | 2006 | 2004 |

Methods:

- 1 The normal years were picked first based on 99% or greater flight coverage within a weather station polygon for a given year and a single normal month.
- 2 Primary and Secondary Year status was assigned to the most recent "Normal" years having the greatest flight coverage within a weather station polygon for a given year within a single month.
- 3 Weather station polygons not meeting the 99% or greater flight coverage within a weather station polygon for a given year and a single normal month were then analyzed across multiple normal months within the same normal year. For example, in 2014 the flight has 100% coverage of the weather station; however the flight was flown in more than one normal month (August, September, October).
- 4 Weather station polygons not meeting the 99% or greater requirement were then analyzed down to the 90% level and the "Primary" and "Secondary" Year status analysis was repeated.
- 5 Not all Weather Station Polygons have a previously identified normal year.

User Instructions:

- 1 Select the "Primary Year" normal slide to use for sizing sampling units that do not contain a pre-1985 drainage manipulation(s).
- 2 If the "Primary Year" normal slide is not readable then the user must select the "Secondary Year" normal slide for sizing sampling units that do not contain a pre-1985 drainage manipulation(s). If the "Secondary Year" normal slide is not readable then contact the State Office for further assistance.
- 3 If the either the "Primary Year" column or "Secondary Year" column is annotated with "SO" then the user must contact the State Office for further assistance.

NOTE: If the agency expert identifies post-December 23, 1985 manipulation(s) then year of the manipulation will determine the normal year imagery used for the base map for the effected sampling units (normal circumstances are represented by a normal image year prior to the conversion activity). Therefore, it may be necessary for the agency expert to select a normal image year for sizing that is not identified in either the primary or secondary year columns.

Normal Year Imagery Used in Sizing Sampling Units With No-pre1985 Drainage Manipulation

| Weather Station Polygon | Station ID | County | Primary Year | Secondary Year |
|-------------------------|------------|------------|--------------|----------------|
| Ardmore 2 N | SD0236 | Fall River | 2012 | 2014 |
| Belle Fourche | SD0559 | Butte | 2010 | 2014 |
| Bison | SD0701 | Perkins | 2012 | 2008 |
| Bonesteel | SD0778 | Gregory | 2014 | 2004 |
| Buffalo Gap | SD1124 | Custer | 2012 | 2014 |
| Camp Crook | SD1294 | Harding | 2014 | 2005 |
| Cedar Butte | SD1539 | Mellette | 2012 | 2010 |
| Cottonwood 2 SE | SD1972 | Jackson | 2014 | 2012 |
| Custer | SD2087 | Custer | 2012 | 2014 |
| Deadwood | SD2207 | Lawrence | 2014 | 2012 |
| Dupree | SD2429 | Ziebach | 2012 | 2004 |
| Dupree 15 SSE | SD2446 | Ziebach | 2012 | 2004 |
| Eagle Butte | SD2468 | Dewey | 2012 | 2004 |
| Edgemont | SD2557 | Fall River | 2012 | 2014 |
| Edgemont 23 NNW | SD2565 | Custer | 2014 | 2012 |
| Elm Springs 3 ESE | SD2647 | Meade | 2012 | 2014 |
| Faith | SD2852 | Meade | 2012 | 2014 |
| Ft. Meade | SD3069 | Meade | 2014 | 2010 |
| Glad Valley 2 W | SD3316 | Ziebach | 2012 | 2010 |
| Gregory | SD3452 | Gregory | 2004 | 2014 |
| Harding 3 SE | SD3560 | Harding | 2012 | 2010 |
| Harrington | SD3574 | Bennett | 2010 | 2008 |
| Hermosa 3 SSW | SD3775 | Custer | 2004 | 2005 |
| Hill City | SD3868 | Pennington | 2014 | 2012 |
| Hot Springs | SD4007 | Fall River | 2012 | 2014 |
| Interior 3 NE | SD4184 | Jackson | 2012 | 2010 |
| Kennebec | SD4516 | Lyman | 2012 | 2014 |
| Kirley 6 N | SD4596 | Haakon | 2012 | 2010 |
| Lead | SD4834 | Lawrence | 2014 | 2012 |
| Lemmon | SD4864 | Perkins | 2012 | 2014 |
| Long Valley | SD4983 | Jackson | 2014 | 2012 |
| Ludlow 3 SSE | SD5048 | Harding | 2012 | 2010 |
| Martin | SD5281 | Bennett | 2010 | 2012 |
| McIntosh 6 SE | SD5381 | Corson | 2012 | 2010 |
| McLaughlin | SD5406 | Corson | 2012 | 2010 |
| Midland | SD5506 | Haakon | 2010 | 2004 |
| Milesville 5 NE | SD5544 | Haakon | 2014 | 2004 |
| Mission | SD5620 | Todd | 2012 | 2010 |
| Mission 14 S | SD5638 | Todd | 2012 | 2008 |
| Mt. Rushmore | SD5870 | Pennington | 2014 | 2012 |
| Murdo | SD5891 | Jones | 2014 | 2012 |
| Newell | SD6054 | Butte | 2012 | 2004 |
| Oelrichs | SD6212 | Fall River | 2008 | 2014 |
| Pactola Dam | SD6427 | Pennington | 2014 | 2005 |
| Philip 1 S | SD6552 | Haakon | 2010 | 2014 |
| Plainview 6 SSW | SD6636 | Meade | 2012 | 2010 |
| Porcupine 11 N | SD6736 | Shannon | 2012 | 2010 |
| Presho 7 NW | SD6790 | Lyman | 2014 | 2012 |
| Ralph 1 N | SD6907 | Harding | 2010 | 2012 |
| Rapid City RGNL AP | SD6937 | Pennington | 2012 | 2005 |
| Rapid City 4 NW | SD6947 | Pennington | 2014 | 2005 |
| Redig 11 NE | SD7062 | Harding | 2010 | 2005 |
| Red Owl | SD7073 | Meade | 2012 | 2004 |
| Spearfish | SD7882 | Lawrence | 2010 | 2005 |
| Timber Lake | SD8307 | Dewey | 2012 | 2010 |
| Wasta | SD8911 | Pennington | 2012 | 2005 |
| Winner | SD9367 | Tripp | 2014 | 2008 |
| Wood | SD9442 | Mellette | 2014 | 2012 |
| Zeona 10 SSW | SD9537 | Butte | 2012 | 2010 |

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- 3 If the either the "Primary Year" column or "Secondary Year" column is annotated with "SO" then the user must contact the State Office for further assistance.

NOTE: Some normal year imagery does not show wetness signatures if the crop is in small grains. Several image years west river experience poor image quality. If the primary and/or secondary years are not selected for any of these reasons then the agency expert will document the reason why a different normal year was selected.

NOTE: If the agency expert identifies post-December 23, 1985 manipulation(s) then year of the manipulation will determine the normal year imagery used for the base map for the effected sampling units (normal circumstances are represented by a normal image year prior to the conversion activity). Therefore, it may be necessary for the agency expert to select a normal image year for sizing that is not identified in either the primary or secondary year columns.