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APPENDICES

A Canadian -- Prairie Provinces Tables
B Canadian Research Station Responses
C Summary of Canadian Research Station Responses
D Alberta Wheat Pool Statistics
E 1969 Acreage, yield and Production Tables
F Dot Distribution maps

Prepared by M.R. Stuckey and E.N. Anderson, Data Services Branch Survey Division. Source data were provided by State statisticians.

January 1975
January 17, 1975

General:

The National Aeronautics and Space Administration (NASA) Johnson Space Center at Houston, Texas contracted with the Statistical Reporting Service (SRS), U.S. Department of Agriculture, to develop crop calendars for wheat, barley, oats, rye, grain sorghum, soybeans, and corn for grain. This was for thirteen selected States and three Canadian Provinces in the major wheat producing regions. These calendars and supporting data would provide NASA with detailed information to more accurately determine when Earth Resources Technology Satellite (ERTS) data would provide the most accurate wheat acreage information. This would be used to minimize the amount of ground verified information (ground truth) needed. Since barley, oats, and rye are considered "confusion" crops, i.e., hard to differentiate from wheat in ERTS imagery, specific dates were estimated for these crops in the eight following operations or stages of development: (a) seed-bed preparation, (b) planting or seeding, (c) intermediate growth, (d) dormancy (e) development of crop to full ground cover, (f) heading or tasseling, and flowering, (g) harvesting, and (h) post-harvest operations.

Seedbed preparation includes operations two months prior to planting. Fall plowing for spring seeded crops was classified as a post-harvest operation. Full ground coverage for row crops was when they had reached about one-half their mature height. Average row widths for row crops were also obtained. Post-harvest operations included operations which occur after harvest and until two months before planting. If stubble remained more than one month after harvest, States were asked to specify when post-harvest operations began.

Dates were obtained from thirteen State Statistical Offices (SSO's) by Crop Reporting Districts (CRD's) and the three Canadian Prairie Provinces. These States and provinces by wheat growing regions and classes were:

Region I, Hard red winter - Texas, Oklahoma, Kansas, Nebraska;
Region II, Hard red spring and durum - North Dakota, South Dakota, Montana, and the Canadian Prairie Provinces of Alberta, Saskatchewan, & Manitoba;
Region III, Soft, white winter and spring - Washington, Oregon, and Idaho;
Region IV, Soft red winter - Ohio, Illinois, and Indiana.
Data were also collected for corn for grain and soybeans in Region IV and grain sorghum in Region I. These crops are predominant in these areas, and were also considered confusion crops with wheat at various stages of development.

Dormancy dates were obtained from the SSO's for fall-sown crops. This is the time period when growing stops in the fall until growth begins in the spring. Dates were based on one of the following:

a) Soil temperature of 40°F., or b) Second 28°F. killing frost.

This report is organized into general comments by the thirteen States and three Canadian provinces. The comments give a synopsis of the State's growing conditions, special cropping practices and other characteristics which would be helpful in identifying crops from ERTS imagery.

The first four appendices relate to Canadian data and are self-explanatory. Appendix E shows 1969 acreage and production by Crop Reporting District for all wheat, winter, spring, and durum wheat, barley, oats, rye, grain sorghum, corn for grain, and soybeans. The yield by Crop Reporting District is a 1969-71 weighted average. The dot distribution maps in Appendix F were prepared by the Bureau of the Census.

The crop calendars are 35mm slides and each slide represents one CRD which contains the crops relevant to that area. The calendar is classified into eight separate stages of development or operation given earlier, i.e., seedbed preparation, planting or seeding, etc.
TEXAS

General: Data provided by our Texas State Statistical Office was based on their weekly crop weather data for 1970-1972. Most of the dates used on the chart were drawn from this data. The dates for dormancy were obtained by phone with personnel at the SRS office in Texas; we were given dates for the northern and southern (no dormancy) parts of the state, and interpolated for the areas in between. Harvest dates were taken from the 1973 Texas Small Grains Statistics booklet. There were none for rye, and so we established some for it by taking the harvest dates of wheat and moving them ten days ahead for rye. Barley harvest dates for CRDs 90 and 96 were drawn from those for 70 and 81.

Cropping systems: Cropping sequences were found to produce a significant difference in dryland wheat yields in the Northern High Plains. The wheat-fallow sequence produced the highest yields followed by wheat-sorghum-fallow and continuous wheat produced the lowest. Tillage operations on irrigated wheat in the Texas High Plains did not significantly affect wheat yields. Irrigated wheat acreage accounts for 45 percent of the total wheat acreage in this area. Tillage to incorporate the residues into the soil, i.e., plowing-under vs. no-till, is widely used in seedbed preparation. Some burning is also done to remove surface residues, i.e., heavy straw, thus reducing tillage requirements. Stubble-mulch farming of winter wheat has shown to be a practical and widely used method in the Southern Great Plains of Texas.

Several studies have been made regarding no-tillage systems. No-tillage systems will obviously create a problem in differentiating cropland in fallow and another crop being grown.

Bibliography:


General: The data and dates for wheat are quite good from the weekly weather-crop reports, but those for barley and oats are of lesser quality, especially at the beginning and end of a stage of development. State average dates are based on 1969 data. There is no rye data available from questionnaires, but the applicable dates were adjusted in relationship to the growth dates of wheat. The dates provided for full ground coverage on the small grains are figured for the time jointing begins in the spring until most of the crop has jointed, using the definition of "half height" as a criterion for small grains.

Harvest dates for wheat are taken from the Kansas Wheat Commission's Wheat - Field to Market. Those for the other crops are drawn from the Agriculture Handbook No. 283. Dormancy dates were obtained from our Oklahoma SSO personnel, and those average dates adjusted for the northern and southern parts of the State.

Cropping Practices: Planting of the bulk of all Oklahoma small grains takes place in the Fall (September and October), although some oats and barley acreage is spring-planted (for which some ground preparation must begin in February and March). The bulk of the rye crop is planted for winter grazing or cover crop, and much of the sorghum is intended for silage. Much of the farm land is cultivated on the summer fallow system in the Panhandle and throughout two or three tiers of counties along the western edge of the State adjacent to Texas (Crop Reporting Districts 1, 2, 3, and 4). In order to abate the threat to wind erosion and, also, to trap blowing snow on fields during the winter, some small grain stubble is allowed to remain on the ground in the Panhandle (especially Beaver County) from August until March or April the next spring. Sorghum is usually planted in 36 to 40-inch rows, if irrigated (as in the Panhandle) or intended for grain, or 30-inch rows if grown for silage.

The "heading" stage is the one time of the year when wheat and the "confusion crops" in the Oklahoma area can be differentiated by natural color. At that stage, wheat has dark tones of green; barley has a light or bright yellow-green tone; rye has a gray-greenish shade; and oats has a whitish-gray color (somewhat like that of flax in other areas).

Bibliography:


2. Wheat Rate and Date of Seeding Study, Lavoy I. Croy and R. A. Peck, Goodwell, Oklahoma; PANHANDLE RESEARCH STATION PROGRESS REPORT, Progress Report P-620; Oklahoma Agricultural Experiment Station, pp. 48-49 September 1969.


5. Wheat to Field to Market, Kansas Wheat Commission, Chicago: Wheat Flour Institute; (no date).


General: The dates set for the Crop Reporting Districts (CAD's) were based on ten years of weekly crop-weather data. A new bulletin is being prepared with the latest twelve years through 1973 and will be available in the Fall of 1974.

The charts were based on the dates reported by the State, but with some changes. The dates given for "full coverage" are not considered to be valid, because they extend over the winter dormancy period; instead, the end date is accepted, and the beginning date established after the end of dormancy in the late winter. The dates given for post-harvest operations for oats and sorghum are used as harvest dates, and a gap of five to fifteen days used to establish the post-harvest operations. Other harvest dates were taken from the agriculture Hand­book No. 283 (Usual Planting and Harvesting Dates), except for wheat, which came from the Kansas Wheat Commission's Wheat - Field to Market. Dormancy dates were obtained through conversations with our Kansas State Statistical office, and the average adjusted to the northern and southern parts of the State. We also considered data gathered from surrounding States and adjusted, accordingly.

Cropping Systems: Summer fallow and stubble mulch farming are two important cultural practices common over most of the major wheat producing areas of Kansas. Being familiar with these practices may be helpful in differentiating wheat from other crops.

Summer fallowing, as the attached map illustrates, is extremely important in Crop Reporting Districts 11, 24, 37, 42, 55 and 68. Fallowing means growing one crop every two years and this practice is used mostly for small grains -- primarily wheat. Land from which wheat was harvested in 1973 will not be worked and replanted to wheat until stubble is left undistributed, to help trap moisture until just before seedbed preparation.

Stubble mulch (i.e., minimum tillage) farming is a widely accepted practice over most all of the dryland wheat areas of Kansas. As the name implies, stubble mulching describes a method of seedbed preparation where straw mulch is left on the soil surface at wheat seeding time. The protective surface residue has certainly proven to be a highly significant force in both moisture and soil conservation. This type of seedbed would have a distinctly different aerial appearance than the traditional clean seedbed where all trash and crop residue is plowed under.
Minimum tillage is advocated for grain sorghum growers in north central Kansas where 500,000 acres are grown (2). However as noted in that article and mentioned by King (1), pests may be more of a problem. Cephalosporium Stripe, which resembles the mosaic, is spread by a microscopic mite from volunteer wheat is often growing on the minimum tilled ground.

Double cropping of wheat land is important only in eastern Kansas. Most double cropping will occur in Crop Reporting District 99 and the south one-half of District 86. When moisture is adequate after wheat harvest, it is quite common for producers to burn the wheat straw immediately after harvest, disk the ground and plant soybeans. This operation would occur from about June 25 till July 10.

Thirty inch rows are by far the predominant grain sorghum row spacing in Kansas. In the very dry areas of Crop Reporting District 11, 36 inch rows are common and 20 inch rows are popular for irrigated grain sorghum in southwest Kansas.

Bibliography:


2. In Tillage, Less is More, Clyde Zimmerman; KANSAS FARMER, March 16, 1974, Page 8.


4. Wheat - Field to Market, Kansas Wheat Commission, Chicago: Wheat Flour Institute, (no date).
Percent of 1972 Wheat Acreage on Summer Fallow

Kansas

Counties

- Cheyenne: 96
- Rawlins: 95
- Decatur: 94
- Morton: 93
- Phillips: 82
- Smith: 80
- Jewell: 40
- Republic: 42
- Washington: 36
- Marshall: 43
- Nemaha: 36

- Sherman: 95
- Thomas: 94
- Sheridan: 92
- Graham: 93
- Brooks: 82
- Osborne: 84
- Mitchell: 82
- Cloud: 87
- Clay: 82
- Pottawatomie: 82
- Jackson: 38

- Wallace: 84
- Logan: 94
- Gove: 91
- Trex: 87
- Ellis: 77
- Russell: 48
- Lincoln: 44
- Ellsworth: 44
- Saline: 23
- Adair: 23

- Thomas: 95
- Lyon: 91
- Logan: 92
- Shawnee: 90
- Geary: 86
- Riley: 67
- Pottawatomie: 67
- Morris: 44
- Montgomery: 44

- Leavenworth: 91
- Clark: 92
- Douglas: 80
- Greeley: 85
- Wabaunsee: 80
- Franklin: 80

- Smoky Hill: 95
- Harvey: 81
- Marion: 77
- Montgomery: 77
- Cowley: 77

- Rooks: 82
- Butler: 51
- Neosho: 51
- Crawford: 51

- Gove: 66
- Kingman: 51
- Sedgwick: 51

- Rooks: 32
- Barber: 11
- Harper: 6

- Seward: 81
- Comanche: 60

- Morton: 82
- Chase: 12
- Chautauqua: 12

- Washington: 36
- Wabaunsee: 36
- Trego: 36

- Graham: 93
- Marion: 93
- Maricopa: 93

- Dewey: 82
- Finney: 11

- Mädchen: 44
- Kingman: 44

- Butler: 10
- Labette: 10

- Rooks: 80
- Harper: 60

- Smith: 80
- Republic: 42

- Washington: 36
- Marshall: 43

- Nemaha: 36
- Pottawatomie: 36
- Jackson: 36

- Natrona: 84
- Brown: 84

- Haskell: 95
- Gove: 95
- Seward: 95

- Morris: 36
- Waushara: 36

- Rooks: 82
- Butler: 82

- Gove: 91
- Rush: 91

- Rooks: 82
- Butler: 82

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General: The crop calendar data are derived from a five-year normal, covering 1968 through 1972, using figures from the Weekly Crop - Weather Reports. Dormancy dates were obtained from our Nebraska office, and harvest dates are drawn from Agriculture Handbook No. 283 (Usual Planting and Harvesting Dates).

The dates are discussed below, by crop:

Winter wheat - Three-quarters of the land is summer-fallowed, meaning that what is grown one year and the land left fallow (and then planted in the fall) the next. Post-harvest operations occur over the next spring and summer, and are therefore not shown on the charts. The remaining wheat cropland is continuously-cropped (one winter wheat crop every year), and the tillage operations occur in the fall after harvest and included here with seedbed preparation. The harvest and seedbed preparation dates are very close or coincide because seedbed preparation on summer-fallow land takes place a year after harvest. On continuously-cropped land, it takes place immediately after harvest ("right behind the combines”).

Rye - Most rye is raised on summer-fallow land, and so post-harvest operations are not on the chart because they take place during the fallow year.

Oats - Oats are grown almost exclusively on summer-fallow land in CRD's 10, 20, and 70, and therefore (since they take place the next year) post-harvest operations are now shown on the charts. There is some continuous-cropping in the other districts; in district 30, tillage occurs in the spring and is included in the seedbed-preparation heading, while in 50, 60, 80, and 90 it takes place in the fall.

Barley - Post-harvest operations are now shown on the charts for CRD's 10, 20, and 70, because barley is grown on summer-fallow land. In the other districts, where there is some continuous-cropping, tillage occurs in the fall.

Grain sorghum - Sorghum is raised exclusively on summer-fallow land in districts 10, 20, and 70; therefore, post-harvest operations are now shown. In the other Crop Reporting Districts, some sorghum is grown on continuous-crop land. There is a little tillage in the fall, but most occur in the spring and is included in seedbed preparation.

Cropping Practices:

In Crop Reporting Districts 10, 20, and 70, crops are raised only on a summer-fallow system. Cultivation takes place in the other district on a mixture of summer-fallow land and continuously-cropped land. Oats are often grown as a cover crop, or (especially in CRD 30) as a companion crop for grass and legumes. Sorghum row widths average about 37 inches.

Bibliography:

Neild, R.E., Agroclimatic Calendar for Nebraska; Lincoln, Nebraska: Agricultural Experiment Station, University of Nebraska, 1968.


Williams, J.H., J.L. Hughes, and H.D. Wittmuss, "Double Cropping - Soybean after Winter Wheat."
NORTH DAKOTA

General: Seedbed-preparation data is derived from the State weather-crop reports. There is no entry in those reports for "full ground coverage," but the dates for "emerged and in the stooling or lessor stage" are used as the nearest equivalent. The dates for rye are based mainly on 1969 reports, while those for the other grains are taken from the 1955-1964 averages. These averages are also utilized to provide data in the "heading, flowering" and "post-harvest operations" categories, while the harvest date was determined from the 1969 weather-crop reports. Dormancy dates were obtained from our North Dakota office, and the end of dormancy is based on their data for ending pasture dormancy. Harvest dates were taken from Agriculture Handbook No. 283 (Usual Planting and Harvesting Dates).

The end date of the seed-bed preparation stage is the point at which 5% of the seed has been planted. For winter wheat seed-bed preparation refers to the working of summer-fallowed land one year after harvest. The dates for harvest and post-harvest operations, as given in the crop calendar, often conflict. The post-harvest dates were shifted to start after the harvest. Likewise, the full cover dates for winter wheat and rye in CRD's 1 through 6 have been shifted later to fit after the end of dormancy. All of the soil preparation for rye occurs in the fall, and is included in the charts under seed-bed preparation (the dates for which were changed by our state office). The dates for both harvest and post-harvest operations for durum wheat have been shifted to match those of spring wheat.

Cropping Practices: Wheat is grown almost exclusively on summer-fallow land, although some spring and durum wheat is raised on continuous-crop land. Much of the other crops are grown on continuous-crop land. The plowing of stubble after harvest to prepare for the winter crops depends upon soil moisture conditions, and is limited by the advent of severe weather conditions. Rye is grown continuously, and is planted in the fall stubble ground.

North Dakota's wheat crop is grown predominantly in the eastern and northwestern parts of the State, and especially in Crop Reporting Districts 1 and 3. Barley is raised mainly in the east (CRD's 3 and 6), while oats are raised mostly in the southeastern and western parts of the State (CRD's 1, 2, 4, 6, 7, and 9). Rye is cultivated in greater amounts in the south, and especially in northeast (CRD's 5, 6, 7, and 9), than elsewhere.
Bibliography:


2. INFLUENCE OF SEEDBED PREPARATION ON SOME SOIL PROPERTIES AND WHEAT YIELDS ON STUBBLE; G. N. Geiszler, Ben K. Hoag, Armand Bauer, and Henry L. Kucera; Fargo, North Dakota: North Dakota Agricultural Experiment Station, 1972.


5. WINTER WHEAT IN NORTH DAKOTA, Fargo, North Dakota: North Dakota Agricultural Experiment Station, March 1969.
General: The basis for these dates was the weekly crop weather ten-year averages (1960-1969) for seeding, heading and harvesting for each crop. Comparisons with recent years show these averages to be good indications of normal conditions. Detailed data on seedbed preparation and post-harvest operations by district was not available; therefore, a state average of spring and fall plowing dates was used along with the average seeding and harvesting dates to establish general dates for these operations.

The dormancy dates were provided by our South Dakota office, and are based on the dates when there is a 70% chance of a 28° freeze. Harvest dates were taken from Agriculture Handbook No. 283 (Usual Planting and Harvesting Dates).

Most winter wheat and rye are grown on summer-fallowed land, and this explains the positions of the lines on the charts for these crops. Being summer-fallow crops, they are planted and reach full coverage in the fall of the year in which the land lay fallow; they are harvested and worked (post-harvest operations) the next year, and not planted until the following year. The post-harvest operations dates were shifted later, so they would not conflict with the harvest dates, for winter wheat, rye, and barley.

Cropping Practices: The winter wheat and rye crops are grown mostly on summer-fallowed land, while the other crops are raised mainly on continuously-cropped land. Most of the row crops grown in South Dakota are raised in the eastern half of the state, although much wheat and hay are grown in the western part. Most of that area west of the Missouri River is devoted to range and pasture.

Wheat is grown over the entire State of South Dakota, but its distribution changes according to variety. Winter wheat is raised mainly in the southern half of the state, especially in the south central counties (Crop Reporting District 8), while most spring wheat is grown in the north (particularly the northeastern quarter, C.R.D.s 2, 3, 5, 6, and 9. Barley and rye, like spring wheat, are both raised mainly in the northeast; the major barley-producing counties are Brown, Marshall, Day, Spink, and Codington (C.R.D.s 2 and 3), and those for rye are Brown, Spink, Edmunds, and Faulk (C.R.D. 2).

Bibliography:


MONTANA

General: Montana dates are based on Weekly Crop Weather data of five years, from 1968 through 1972. Montana data collected on phenological factors is not complete on seedbed preparation, full ground coverage, or post-harvest operations. Therefore, seedbed preparation was estimated, using planting date data as a "base factor"; full ground coverage, using boot or early boot data; and post-harvest operations, using end of harvest dates. A complicating factor is that almost all cereal grains that are non-irrigated are planted on summer-fallow ground. Thus, seedbed preparation operations actually begin the previous year prior to actual seeding. However, the dates submitted are for the final seedbed operations carried out just prior to seeding.

There can be no practical distinction between spring wheat and durum.

Dormancy dates were obtained from our Montana office. Harvest dates were taken from Agriculture Handbook No. 283 (Usual Dates of Planting and Harvesting).

Post-harvest operations and seedbed preparation dates are shown on the chart at the same time for winter wheat and rye. However, the post-harvest operations occur just after the harvest, before the land goes into summerfallow; the seedbed preparations take place the next fall, after the land had been in fallow.

Cropping Practices: Normally, most of the land is cultivated with stubble mulch. Cropping methods have been changing. More continuous cropping has been occurring (possibly due to higher wheat prices), and less strip farming has been taking place. No-tillage farming is being recommended to farmers whose weed control is good.

Bibliography:


General: The dates on the crop calendar are drawn from a review of Weekly Crop-Weather data, but subjectively: no specific years have been taken from those reports. Dormancy dates were obtained from our Washington State office, and harvest dates were taken from Agriculture Handbook No. 283 (Usual Planting and Harvesting Dates).

We had considerable difficulty delineating cropping operations for grain grown East of the Cascades. Summerfallow operations such as summer weeding were not considered as either seed-bed preparation or post-harvest work, even though they occur within two months of planting time. However, such operations as fall chiseling and sub-soiling were classified as post harvest, since this work is done on currently harvested land to prepare it for winter and subsequent summerfallowing the following year. Likewise, in continuous-crop areas, disking of stubble was considered as a post-harvest operation rather than a seed-bed preparation job. In reality though, this task is undertaken within two months of fall planting and is continuous with other seed-bed preparations.

Washington dryland farmers normally concentrate on seeding their current summerfallow before working up ground (post-harvest operations) which has just been harvested and will be summerfallowed the following year. Therefore, beginning seed-bed preparation dates actually precede the beginning post-harvest operation dates.

Only spring plowing operations, and not those in the fall, are being used to determine the seed-bed preparation dates for barley. For this reason we have copied those of winter wheat (which have the same end dates as barley).

We have discontinued the fall starting dates for full coverage for winter wheat (except for CRD 01), so this phase does not extend over dormancy. Therefore, winter wheat full coverage begins after the end of dormancy. The fairly wide range in winter wheat heading dates reflects both the variation in planting times throughout a district and the large differences in elevations that occur in most of them.

Cropping Practices: The methods used by farmers in Washington are the standard ones, summerfallowing and continuous-cropping. There is no double-cropping, and there is no use of the no-tillage cultivation system.

Bibliography:


OREGON

General: The dates in the crop calendar were derived from Oregon Weekly Crop-Weather data and objective yield data. Harvest dates were taken from Agriculture Handbook No. 283 (Usual Planting and Harvesting Dates). Dormancy dates were obtained from our Oregon office. However, the dormancy dates are somewhat tentative, because some years CRD's 10 and 70 have no dormant period, but stay green all winter. In any case, seed-bed preparation and post-harvest operations are not halted during that time.

Winter wheat is raised on summer-fallowed land, so post-harvest operations are not shown, because they occur over the fall (after harvest), spring, and early summer (of the next year). For rye, oats, and barley, the soil is worked only once, and gradually, between harvest and planting. Therefore, the seed-bed preparation and post-harvest operations were combined. The dates for barley given in the crop calendar included both fall and spring-sown barley; those on the charts are those for fall-sown, and were taken from Agriculture Handbook No. 283.

Cropping Practices: The reason for the rather large variation in the planting season, maturity dates and harvesting periods is due to the tremendous variation in weather and degree days brought about by differences in altitude. Oregon's farming ranges from near sea level 10 - 100 feet in the coastal valleys, to the high plateau which covers much of central to southeast Oregon where the average elevation is 4,000 feet plus. The major grain producing areas, for winter wheat and barley, are the Willamette Valley (district 10); the Columbia River counties (district 20); Umatilla County which is really a Columbia River county but is included in district 30; district 30, where the elevation ranges from 2,500 - 3,500 foot level, including Baker and Union Counties and Wallowa County (also district 30) which is sub-alpine (4,500 - 5,000 feet); and district 80, which includes the balance of eastern Oregon, averaging 4,000 feet plus.

All this variation usually takes place within one county in one district. For example, Gilliam County, a major producer of winter wheat and barley, is farmed from 200 feet to 3,500 feet elevation. The topography is macro-relief. One ranch, in fact one field, may vary 500 feet elevation difference and whole fields mature at different times. One always starts combining at the bottom of south slopes and works up lastly to north slopes. South slopes always mature before north slopes regardless of elevation. Barley and wheat are planted in the same field. A common practice found in wheat culture is surrounding a wheat field with 3 - 4 drill widths of barley with the intention of cutting if for hay. Oats are mostly fall seeded in the Willamette Valley while spring habit oats are predominantly seeded in district 30, primarily Klamath County. Oats in districts 20, 30 and counties other than Klamath are largely cut for hay.
OREGON

There is very little cultivation of grain crops in Crop Reporting District 70. Malheur County raises a lot of irrigated grain, mostly mixtures of barley, wheat, and oats, usually used for feed. There are large seedings and stands of crested wheat grass in Malheur, Harney, Lake and Klamath Counties. Other higher elevation counties, too, have come crested wheat grass. This crop may cause some trouble in crop identification.

Rye is grown mostly for hay in all areas. What we do call grain is generally used for seed and most is raised in district 10. Quite a lot of seed is used by orchardists for cover crops. Because of elevation differences, there is a very wide range of planting and harvesting dates. Naturally, the development stages follow this also. Post harvest operations are of some concern, as we do not understand exactly what is wanted. Some farmers get right on the ground, burn the stubble, plow and control weeds until time for planting. Others stubble-mulch and seed directly into the stubble and never plow or prepare a seed bed per se.

Again, because of elevation differences, fall seedings are subject to winter kill and therefore almost all growers some time before the seeding period runs out will reseed, perhaps to spring seeded varieties in the same field. Naturally these don't mature at quite the same rate but usually the fields are large enough that by the time harvest nears its end, the reseeded areas have ripened up.

Bibliography:


IDAHO

General: The 1973 Weekly Weather-Crop summaries, SCS, and Extension Service personnel were used as the information sources for this data. There will be some differences in the progress of the growth stages even over small areas, because of elevation differences - it will be slower on the higher-elevation slopes than on the lower.

Dormancy dates were obtained from our Idaho office. Harvest dates were taken from Agriculture Handbook No. 283 (Usual Planting and Harvesting Dates). The seedbed preparation and post-harvest operations for winter wheat and rye nearly coincide, so they have been combined on the charts.

Cropping Practices: Strip fallow and contour-fallow systems are followed in a few places in Idaho. Fall plowing is important, but more often, stubble will be left in the field for a month. The field is then deep-chiseled or roughed-up with other equipment to retain winter moisture. This land is then prepared in the spring for planting, or it may be summer-fallowed.

Most of the crops in Crop Reporting Districts 7 and 8 are grown with irrigation (in 6 to 8-inch row widths). District 9 has irrigated (6 to 8-inch rows) and dryland (10 to 14-inch rows) fields. District 1 has mostly dryland farming (with 6 to 8-inch row spacing). Idaho grows over 100,000 acres of mixed grains, mostly a mixture of spring barley and spring wheat, in Districts 7, 8, and 9. Both spring and winter-planted barley are grown, of which 90 percent is spring and 10 percent winter. Most winter barley is raised in District 1.

Bibliography:

General: All dates are based on Weekly Weather-Crop data from the last 5 years, the 1972-73 Ohio Agronomy Guide (Bulletin 472), Usual Planting and Harvesting Dates (Ag. Handbook 283), and state estimates. Dormancy dates were obtained from our Ohio SRS office, and harvest dates from Agriculture Handbook No. 283.

The full coverage dates for wheat and some of the barley have been shifted earlier, so their end dates do not conflict with the beginning of dormancy. The full coverage and heading dates for soybeans are the same, because of the definition of full coverage used by Ohio, which has to do with the height of the plants.

Cropping Practices: Most of the barley and rye grown in Ohio is fall-seeded, but a large proportion of the latter is grown as a cover-crop or is used as green manure and is plowed down. Recently, some corn (10,000 acres in 1973) has been planted on no-till land; row widths range from 20 to 40 inches, most commonly 28 to 30 inches. Row widths of soybeans range from 7 to 30 inches, usually about 20 inches.

There is a lot of double-cropping of wheat and soybeans in the southern part of the state (the southern parts of districts 4 and 5, all of 7 and 8, and a little of 9), using a no-tillage system.

Bibliography:


General: The listed dates for each crop are average based on weekly crop-weather data from 1969-1973. Very little data were available for barley and rye, since these two crops comprise only a small share of the total state crop acreage. The dates for barley are based in part on the dates for the operations or stages of development relating to oats (both crops spring-seeded). The dates for rye are based in part on the dates for the operations or stages of development relating to winter wheat (both fall-seeded).

Dormancy dates were obtained by adding ten to fifteen days to the average date of the first frost (thus getting the hard freeze) for the fall date, and by using the dates of the planting of oats, (from the Illinois Field Crops from Planting to Harvest booklet) as a sign that dormancy had ended. Harvest dates are taken from the Agriculture Handbook No. 283, Usual Planting and Harvesting Dates.

Because the dates for seedbed preparation and full cover, as given in the crop calendar, conflict with the start of dormancy, they have been shifted to earlier dates, those of rye. All post-harvest operations dates (except those for soybeans) have been shifted later, so that they do not conflict with the harvest dates.

Cropping Practices: There is much double-cropping of soybeans after wheat in Crop Reporting Districts 6, 7, 8, and 9. No-till methods are seldom used; instead, the ground is worked, and the stubble either broken up or turned under.

In 1973 the average row width for corn for grain in the State was 36.1 inches and the average row width for soybeans was 34.5 inches. These figures are based on objective yield survey data.

Bibliography:


INDIANA

General: Most estimates are based on data from the Weather-Crop Reports for 1973, or are projections from these data; some estimates are from agronomy experts at Purdue University. Since no county estimates are made for rye, the 1969 acreage estimate for this crop is based on the 1969 Census distribution by District.

Dormancy dates were obtained from our office in Indiana. Harvest dates were taken from Agriculture Handbook No. 283 (Usual Planting and Harvesting Dates).

The harvest and post-harvest operations dates on the crop calendar conflict, so the post-harvest operations dates have been shifted somewhat later (this applies to wheat, rye, corn, oats, and soybeans). The seedbed preparation and full coverage dates for oats conflict and on the advice of our Indiana office, the seedbed preparation dates have been shifted earlier.

The dates for soybean full coverage and heading (podding) create a small problem. This is because of the definition of "full coverage" used by Indiana. They defined it as beginning when the soybean plants reach a height of 18 inches, but podding begins before then. Therefore, the lines on the charts for these stages overlap. If a height of 12 inches were used for full coverage, then it would begin about July 1.

Some winter wheat harvesting begins around June 20.

Cropping Practices: Cropping practices are relatively uniform over the State. Little contour farming is done, but because the southern part of the State, particularly Districts 8 and 9, are somewhat hillier than other areas, contour farming is more frequent in these districts compared with elsewhere in Indiana.

There is some double-cropping of soybeans following wheat in Crop Reporting Districts 7, 8, and 9. This is usually done with a limited tillage system, in which the stubble is chiseled into a mulch, which is left on the surface of the soil.

The row spacing of corn for grain declined steadily from an average of 39.3 inches in 1963 to 36.1 inches in 1971; it was 36.2 in 1972, and 35.5 in 1973. The average row spacing of soybeans fluctuates from year to year, generally between 35 and 36 inches; it measured 34.6 inches in 1973.

Bibliography:


GENERAL: Statistics Canada was visited on June 27-28, 1974 in Ottawa, Ontario. Statistics on acreage, yield and production for spring wheat, barley, oats, fall and spring rye were obtained for the three Prairie Provinces (Alberta, Manitoba, and Saskatchewan) and are given in appendix A. Modal dates for spring wheat were obtained. All data were combined into the groups suggested by them.

Names and addresses of the seven research stations in the three Prairie Provinces were provided. All stations were contacted by memorandum to obtain data on plant color, average number of days between biological stages of development, when and how many times summer fallowing is cultivated, cropping systems, etc. (see appendix B). Four research stations responded and their replies are in appendix B. A summary of their replies are given in appendix C. Where wheat is mentioned, we are referring to spring wheat. Although some winter wheat is grown in the Prairie Provinces, it is a small amount compared with spring wheat acreage. 1/ Appendix D gives dates of average height, percentage seeded, percent cut, and percent threshing completed for wheat, oats, barley and spring rye as reported by the Alberta Wheat Pool in 1973.

CROPPING SYSTEMS: Summerfallowing is practiced extensively in Southern Canada. Land in summer fallow is cultivated 5-7 times during the 21 month cycle about every 4 to 5 weeks (See appendix C). The first cultivation is usually done around June 1 and, depending on moisture and weed problems, will be done 3 more times (monthly) that summer.

All research stations stated that the average growing period was about 94 days from seeding to swathing. The following is the average number of days during the growing period for 4 biological stages of development:

- Seeding to emergence: 10 days
- Emergence to full ground coverage: 19 days
- Full ground coverage to heading: 25 days
- Heading to swathing: 40 days
- Total: 94 days

COLORING: Wheat has the darkest color when heading followed by barley and oats. Barley is a lighter green while oats are more gray-white in appearance.

Bibliography

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1/ Does not add due to rounding.
2/ Yield calculated on domestic unit data.

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### REGION II BARLEY--1972

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Original page is of poor quality.
### REGION II OATS-FOR GRAIN -- 1973

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<th>Yield Bushels</th>
<th>Production Bushels (000)</th>
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</table>

| SASKATCHEWAN | | | | | | |
| Group-1 | 696 | 47.0 | 32,710 | 282 | 16.8 | 4,748 |
| Group-2 | 793 | 48.7 | 38,651 | 321 | 17.5 | 5,610 |
| Group-3 | 511 | 54.1 | 27,639 | 207 | 19.4 | 4,012 |

| Province | 2,000 | 49.5 | 99,000 | 810 | 17.7 | 14,370 |

| ALBERTA | | | | | | |
| Group-1 | 549 | 53.2 | 29,222 | 222 | 19.1 | 4,242 |
| Group-2 | 1,028 | 57.8 | 59,373 | 416 | 20.7 | 8,618 |
| Group-3 | 423 | 53.0 | 22,405 | 171 | 19.0 | 3,252 |

| Province | 2,000 | 55.0 | 111,000 | 810 | 19.7 | 16,112 |

| 3-PRAIRIE | | | | | | |
| Provinces | 5,300 | 51.5 | 273,000 | 2,147 | 18.5 | 39,626 |

### REGION II FALL RYE -- 1971

<table>
<thead>
<tr>
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<th>Acres (000)</th>
<th>Yield Bushels</th>
<th>Production Bushels (000)</th>
<th>Hectares</th>
<th>Yield metric quintals (000)</th>
<th>Production metric quintals per hectare</th>
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<td>16.1</td>
<td>325.5</td>
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| SASKATCHEWAN | | | | | | |
| Group-1 | 289.9 | 21.2 | 6,155.5 | 117.4 | 13.3 | 1,564.5 |
| Group-2 1/ | 48.1 | 25.5 | 1,131.8 | 19.5 | 14.7 | 287.5 |
| Group-3 2/ | 164.0 | 21.4 | 3,512.7 | 66.4 | 13.4 | 892.2 |

| Province | 502.0 | 21.5 | 10,800.0 | 203.3 | 13.5 | 2,743.2 |

| ALBERTA | | | | | | |
| Group-1 | 179.6 | 25.7 | 4,666.9 | 72.7 | 16.1 | 1,170.2 |
| Group-2 3/ | 39.2 | 20.8 | 816.0 | 15.9 | 13.0 | 207.7 |
| Group-3 4/ | 7.2 | 19.0 | 137.1 | 2.9 | 11.9 | 34.8 |

| Province | 226.0 | 24.6 | 5,560.0 | 91.5 | 15.4 | 1,412.9 |

| 3-PRAIRIE | | | | | | |
| Provinces | 855.0 | 22.9 | 19,610.0 | 346.3 | 14.4 | 4,980.9 |

1/ Crop Districts 5, 8.
2/ Crop Districts 6, 7, 9.
4/ Crop District 7.
### REGION II FALL RYE--1972

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<th>Hectares (000)</th>
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### REGION II FALL RYE--1973

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<th>Production bushels (000)</th>
<th>Hectares (000)</th>
<th>Yield metric quintals</th>
<th>Production metric quintals (000)</th>
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<td>16.4</td>
<td>439.8</td>
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<td>218.7</td>
<td>44.0</td>
<td>3,073.4</td>
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</table>
LOCATION OF CANADIAN RESEARCH STATION RESPONSES

OUTLINE MAP OF THE PRAIRIE PROVINCES
SHOWING
CROP DISTRICT BOUNDARIES

ALBERTA
SASKATCHEWAN
MANITOBA

AGRICULTURE DIVISION
DOMINION BUREAU OF STATISTICS
In a recent visit with Statistics Canada, they suggested your experience and knowledge would be a great asset to our study. We are gathering agricultural information such as crop distribution maps, crop production statistics, cropping practices for selected areas and developing "Crop Calendars" for the National Aeronautics and Space Administration (NASA). This information will be used by them in a remote sensing research project to inventory wheat. It will therefore minimize the amount of ground verified information (ground truth) needed to analyze and utilize the remotely sensed data. The three Prairie Provinces of Canada were included to cover the hard red spring and durum wheat regions.

We feel your expertise can be of considerable value to us in the following areas:

1. Where grains are summer fallowed, how many times is the area cultivated?
   a. What are the approximate dates when this cultivation occurs?

2. What are the more common cropping systems for wheat, barley, oats, and rye in your area, i.e., summer fallow, stubble mulch, etc.

3. Is there any appreciable way of differentiating between the cereal grain plants by color, i.e., different shades of green during the heading stage? This would be helpful as a possible identification scheme from the Earth Resources Technology Satellite (ERTS) imagery that NASA is using.
4. What are the average number of days between biological stages of development for wheat, barley, oats and rye, i.e., planting to full coverage of ground, full coverage of ground to heading and flowering, heading and flowering to harvest?

5. Are there any dot distribution maps for the four commodities mentioned in 3. for your area or province? These could be based on acreage or production.

6. If there are any Research station publications on the above mentioned topics, these would be appreciated.

We would appreciate receiving any information you might have by July 17, 1974.

'Thanking you in advance I am

M R STUCKEY
M. R. STUCKEY, Head
Reports & Records Section
Data Services Branch, SD, SRS
U. S. Department of Agriculture
14th & Independence Ave., S. W.
Room 0234 South Building
Washington, D. C. 20250

Mr. M. R. Stuckey, Head,
Reports and Records Section,
Data Services Branch, SD,
Statistical Reporting Service,
United States Department of
Agriculture,
Washington, D. C., 20250,
U. S. A.

Dear Mr. Stuckey:

In response to your letter dated December 13, 1973, please find enclosed four tables showing crop calendars for spring wheat, barley, oats and fall rye, and a map of the three Prairie Provinces indicating location of crop districts within each province. Crop districts have been aggregated within each province for tabulation purposes as crop conditions tend to be fairly homogeneous within these groupings. Also enclosed are copies of five questionnaires sent to the Prairie Provinces with specific questions relating to seeding, heading, and threshing dates.

This information is not available in any publication released by Statistics Canada. Hence, the data was compiled using a combination of subject-matter knowledge and experience and frequency distributions of seeding, heading, and threshing dates acquired from responses to our questionnaires. To the extent possible, the information has been discussed and confirmed with the Provincial Statisticians in the respective provinces. Since the data represent only estimates on the part of economists in our Crops Section, the data should not be considered as official Statistics Canada estimates. However, if you wish, you are most welcome to visit our office and study more rigorously the information we have on file.

Two points should be brought to your attention before you use the data. Firstly, the harvesting period has been defined as that time span within which ninety per cent of threshing is completed.
This would not, of course, account for the cutting or swathing activity performed before threshing. If cutting were to be included, we would recommend that the beginning date be advanced by approximately ten days. Secondly, it is difficult to provide dates for seed-bed preparation since the majority of wheat in Western Canada is seeded on land that has been summerfallowed the previous season. This summerfallow, as well as stubble, is worked immediately before seeding or alternatively, in the same operation. Oats, barley and fall rye are mostly seeded on stubble, and the preparation would also be immediately before or in the same operation as the seeding activity. Because of the unusual nature of the seed-bed preparation and post-harvesting operations, we have deleted these columns in the enclosed tables.

If we can be of any further assistance, please do not hesitate to contact us.

Yours very truly,

W. L. Forteous, Director,
AGRICULTURE DIVISION.

attach. 4
Dear Mr. Stuckey:

I have been asked to reply to your letter of July 3 which was addressed to Dr. W. N. MacNaughton, Director.

The following is our response to your several questions.

1. Approximately 4 - 5 times.
   a. Following seeding, approximately June first or a few days later, to the end of August, and occasionally one cultivation later to control certain troublesome weeds.

2. About 20 - 30% of South-Western Manitoba crop land is in summerfallow. A couple of common rotations are: 1) wheat, barley, fallow; 2) fallow, rapeseed, cereal.

3. Fields, of course, change colour as the plants on them pass through the various stages of growth to maturity and harvest.

   Most bread wheat acreage is planted to varieties or cultivars that do not have awns, however, one variety having awns, Napayo, has recently been licenced for sale and recommended in Manitoba, especially in the eastern portions of the crop land. It and a new awned feed wheat, Norquay, may comprise a significant portion of the land sown to wheat over the next few years in this area. Durum wheat in Western Canada is awned.

   Oats should be whiter in colour than the wheats and barley a yellower shade as it ripens.

   Unfortunately there is considerable difference within species as to the shade of green of the crops before heading, due in part to the amount and configuration of surface wax.
July 10, 1974

Mr. M. R. Stuckey

4. The early stages vary considerably with planting date and drought stress. The later seeded crops move through the pre-heading stages faster than the early ones.

An approximate time scale for the spring cereals could be:

<table>
<thead>
<tr>
<th>Stage</th>
<th>Date</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seeding to emergence</td>
<td>May 10 - 18</td>
<td>8 days</td>
</tr>
<tr>
<td>Emergence to full ground coverage</td>
<td>May 18 - June 2</td>
<td>15 days</td>
</tr>
<tr>
<td>Full ground cover to heading</td>
<td>June 2 - July 7</td>
<td>35 days</td>
</tr>
<tr>
<td>Heading to swathing</td>
<td>July 7 - Aug. 10</td>
<td>33 days</td>
</tr>
</tbody>
</table>

Seeding occurs from late April through the second week in June. In most years the major portion of the seeding is done during the last three weeks of May.

The only winter cereal of any significant acreage is fall rye, comprising a few hundred thousand acres on the Canadian prairies as a whole.

5. Three sources of dot distribution maps showing the four commodities you listed are the following:


6. None to my knowledge, however the Manitoba Yearbook of Agriculture has longterm crop acreage statistics, currently unavailable, some sheets enclosed.

I hope the above answers your questions adequately.

Yours sincerely,

R. I. Wolfe,
Biologist, Barley Breeding.
10 July 1974

Mr. M. R. Stuckey
Data Services Branch, SD, SRS
U. S. Department of Agriculture
Room 0234, 14th & Independence Ave. S.W.
Washington, D. C. 20250, U. S. A.

Dear Mr. Stuckey:

I have your letter of July 3 to Mr. Gillespie regarding agricultural information to assist in the development of crop production, maps, etc.

We, unfortunately, are just out of the hard red spring and durum wheat region.

In reply to your questions, 1) our major crop is barley. Very little of the land is fallowed (less than 10%) but when fallow is made, operations begin mid-May and are carried out at monthly intervals until October. 2) The most common cropping system is barley, and barley after barley for periods of six to twelve years. Approximately half of the farms do go into some rotation with perennial forage crops such as oats. Rapeseed is used to some extent as an alternate cash crop. Most of the crop is seeded on stubble.
3) Wheat is usually darker green at heading than barley; rapeseed is yellow at flower time. These colour differences might be used by ERTS. 4) The average number of days from emergence to ground cover is 20-25 days; emergence to heading is 40-45 days, and emergence to harvest is 80-100 days. 5) I believe there are dot distribution maps for the commodities in three available from Alberta Department of Agriculture. 6) Perhaps the best information source on the varieties of topics you are interested in would be the Alberta Guide to Farm Practice. This publication has just been revised but reprints should be available this fall.

Thank you for your interest.

Yours very truly,

H. A. FRIESEN
Head, Crop Management & Soils Section

HAF/dib
Dear Dr. Stuckey:

Mr. P. E. Blakeley asked me to reply to your letter of July 3 regarding ground-truth information.

As you may know, we are one of the centers presently ground-truthing for the ERTS program on hard red spring and durum wheat. Our 1973 data are currently being assessed by Dr. A. R. Mack and his staff in Ottawa, and 1974 ground-truth information is being forwarded as it is collected.

With reference to your specific questions: Fallows are generally cultivated or tilled about six or seven times between harvest in August or September of year 1 until they are seeded in the spring of year 3. During the normal fallow period of year 2, most dryland soils will be worked three to five times, depending on the presence and prevalence of weed growth. In southern Alberta, some farmers will cultivate wheat and barley stubble with subsurface cultivators in the fall immediately after harvest. This operation leaves most of the stubble standing erect, and the only visible sign of tillage is the kerf mark of the cultivator.

Spring tillage of land to be fallowed often precedes seedbed preparation of lands to be cropped and so may be initiated any time from about April 15 to May 15. Subsequent tillage on fallow is done at about 3- to 4-week intervals. We recommend that, in southern Alberta, farmers refrain from working fallows during August to discourage cutworm moths from laying eggs into the loose, pulverized surface of newly worked soils.

Throughout most of the dryland areas, cereal crops are grown under a crop-fallow or a crop-crop-fallow system. However, where spring soil moisture is plentiful, recropping on a more or less continuous basis is not uncommon. Hard red spring wheat and barley are the most common crops grown on dryland but we also have appreciable acreages of winter wheat, fall rye, durum wheat, and rape. Some oats are planted in mid-July to provide green cover crop during fall months.
Dr. M. R. Stuckey

Color differences in cereal crops can be deceiving because they are often governed or affected by soil fertility and available moisture. However, seedling oat crops are usually more blue-green than the deep, dark green of a good wheat or barley crop. Shortly after heading, barley crops will be lighter in color than most wheat crops at the same growth stage since most barleys are awned and our hard red spring wheats are awnless. Winter wheats have awns but they will normally be headed about 3 weeks before spring-planted grains are headed.

I have no meaningful data on average number of days between stages of growth for the various cereals on dryland. Stages of growth and development are so dependent on weather. However, the enclosed publication provides this information for wheat grown on irrigated land in southern Alberta.

The percentages of the various varieties of cereal grains and oilseeds grown in Alberta are shown on the enclosed charts, which were compiled by the Alberta Wheat Pool.

Yours sincerely,

U. J. Pittman
Research Scientist

UJP/mm
encls
IRRIGATION was practiced in southern Alberta before 1900. As early as 1913, experiments were instituted to determine the consumptive use of water by crops. These early studies, conducted at a number of localities and at various times, were concerned primarily with seasonal water requirements. Irrigations were frequently scheduled on a calendar basis rather than as a function of soil moisture depletion. Recent studies (5, 7) have emphasized the within-season requirements of different crops as influenced by stage of crop development, and soil moisture stress. These studies have also related measured evapotranspiration (hereinafter referred to as \( E_t \)) to various meteorological parameters observed concurrently (4). The relationships permit estimation of \( E_t \) for irrigation scheduling and provide a method by which the data may be made applicable to other areas of the prairies. Thus this laborious and time-consuming task of measuring \( E_t \) in each locality can be eliminated.

This paper presents \( E_t \) for five crops. These data were determined from 1960 through 1968 by the plot method at the irrigation station at Vauxhall, Alta. The data are compared with potential evapotranspiration \( (E_{p}), \) calculated by procedures involving solar radiation and temperature. The transfer value of the data based on these \( E_t/E_p \) ratios is discussed.

Approach

The soil on the plot areas is an Oiticica Brown Chernozem representative of much of the irrigated area of southern Alberta. It is a sandy clay loam of alluvial lacustrine origin overlaying slowly permeable glacial till at a depth of 3 to 4 ft. The water table, indicated by observation wells spaced throughout the area, was about 9 ft and rare only slightly during the growing season. Soil moisture, determined to a depth of 5 ft in the alfalfa plots and 4 ft for all other crops, did not indicate any appreciable amount of percolation through the subsurface. Consequently, the soil moisture depletion techniques used were believed to provide a good measure of \( E_t \). During those periods when foliage provided full ground cover, the crops were assumed to be transpiring at the potential rate.

Most crops were irrigated when the soil moisture in the root zone was depleted to 50 percent of that readily available. For potatoes the allowable moisture depletion before irrigation was only 25 percent. These soil moisture levels had been previously determined to be the minimum permissible without limiting crop production (5). Soil moisture for \( E_t \) calculation was determined gravimetrically. Irrigation scheduling was based on soil moisture tension. Irrigation water was measured onto each plot in quantities sufficient to restore moisture in the root zone to field capacity. Temperatures and hours of sunshine were measured at a site adjacent to the plot and the number of observations of \( E_t \) for each crop varied, depending on the number of years each crop was studied and the number of measurement periods each year. For the grass, 25 observations were made over a 5-year period for alfalfa, 25 observations were made over a 3-year period, and for each of the row crops, there were about 60 sets of data. Best-fit polynomial regression equations and standard errors were obtained by computer calculation. The curves were plotted to present daily \( E_t \) as a function of days of growth and to show the relationship between measured \( E_t \) and calculated \( E_t \) throughout the growing season. Calendar days were chosen for the abscissa instead of a biological time scale since crop growth stages occurred on about the same \( E_t \) calendar date each year.

This may not apply in areas where a longer growing season permits considerable latitude in planting dates.

Evapotranspiration Data

The daily water requirements of the two row crops, potatoes and sugar beets, were very similar, both in amount and seasonal distribution (Fig. 1). Peak rates approaching 0.25 in. per day occurred from mid-July to mid-August. This peak was reached at or shortly before the time that foliage completely shaded the ground between plants and between rows. Planting dates and initial growth rates for the two crops were similar. After mid-August, water requirements declined more sharply for potatoes than for sugar beets because the potato vines were approaching maturity but sugar beets continued vigorous growth.

The two perennial forages, grass and alfalfa, were also much alike in water-use patterns. Their water requirements early in the season were higher than those of the row crops. After the row crops were fully developed, however, all four crops exhibited similar use patterns for the remainder of their active growth periods. Although the daily requirements of alfalfa appear to be higher than those of pasture grasses, this may be partially due to different methods of calculating \( E_t \). The grass curve was drawn from data representing the full time-interval in the late harvesting periods in each of 5 years. The alfalfa use curve was calculated from \( E_t \) data that omitted a 7 to 10-day period immediately following each cutting. During these afterharvest periods when foliage was small, daily use by alfalfa was reduced to one-tenth of an inch per day. The alfalfa curve consequently represents \( E_t \) for that crop while the curve for pasture grasses represents some time interval during which \( E_t \) may have been less than potential. However, since clipping height for the grass was comparatively high (3 in.), these periods of reduced \( E_t \) were undoubtedly short.

The daily \( E_t \) for cotton was represented by soft wheat differed from both row crops and forages. Early in the season daily use increased rapidly. A short but high peak water requirement occurred in midseason and was followed by a

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This article is reprinted from the Transactions of the American Society of Agricultural Engineers (Vol. 11, no. 4, pp. 502-508 and 507-508, 1963).
allowed by a rapid decline beginning at the time of complete kernel formation. This sharp decline is characteristic of crops that are harvested when the foliage is dry and the plants are fully mature. It is distinctly different from the gradual seasonal decline of crops that maintain vegetative growth until harvest.

The standard deviations, ranging from 10 to 13 percent of the average daily water use, were primarily the result of differences between years caused by weather fluctuations. They suggest the range that may be encountered in defining average monthly and seasonal water requirements. The differences among crops, however, were influenced by the smaller number of observations for the forages as compared with the row crops. The average daily water requirements of the crops reported in this study are comparable to those reported from several locations in the western United States (2).

Calculated Potential Evapotranspiration

Since water requirements of crops are related to weather parameters, it is possible to predict $E_t$ from weather data. Numerous equations have been developed for this purpose. The procedure adopted in this study was that developed by Jensen and Haup (5) for estimating $E_{tp}$: $E_{tp} = (0.0147T - 0.37) R_n$, in which $R_n$ is solar radiation in inches per day and $T$ is the mean temperature in degrees Fahrenheit. Measured radiation data were not available for the location at which the experiments were conducted. They were calculated using the coefficients developed by Fritz and MacDonald (8) and employed by Joven and Haue. This expression is $R_n = R_{so} (0.35 + 0.618S)$, where $R_{so}$ represents solar radiation on cloudless days and $S$ is the percentage of maximum hours of sunshine occurring for the time interval at the location in question. The ratio of measured $E_t$ and calculated $E_{tp}$ would be unity provided that the measured value was derived from crops that were transpiring at the potential rate and for which incoming advected energy was not a significant factor.

Bair and Robertson (1), using data from Edmonton and Ottawa, derived a slightly different equation for estimating radiation. Their percent sunshine coefficient (0.618) was almost identical to that derived by Fritz and MacDonald (8) but the constant, 0.251, was 10 percent lower. Use of this equation would result in a lower radiation estimate, a lower estimate of $E_{tp}$ and a higher $E_t/E_{tp}$ ratio, all in the order of 10 percent. The effect of the use of the Bair and Robertson equation rather than that of Fritz and MacDonald on the curves presented here would generally be to increase the ratios to a value greater than unity during the periods of maximum growth. For the row crops and cereals it would extend somewhat the length of time that a 1:1 ratio would apply. The $E_t$ data reported here were determined under carefully controlled experimental procedures and are believed to represent accurate measurements of $E_{tp}$. Since the calculated values were more nearly equal to the measured values when the Fritz and MacDonald equation was employed, it is suggested that, where it is necessary to estimate radiation this equation be used.

$E_t/E_{tp}$ Ratios

The $E_t/E_{tp}$ ratio for sugar beets and potatoes (Fig. 2) approached unity as these crops developed full foliage and remained so until harvest. The ratio for forage crops was about unity for all of the growing season throughout May and much of June the daily rate of water use for forages, although not maximum, was about twice that of the annual crops. During the same time the $E_t/E_{tp}$ ratio for the annual crops was much less than unity. Thus, early in the growing season meteorological environment limited $E_t$ from the forages, but crop factors such as foliar development and plant spacing, as well as meteorological environment, limited $E_{tp}$ from the annual crops. When all crops reached full vegetative state, the $E_t/E_{tp}$ ratios were all near unity. The ratio for soft wheat was a maximum during the active growth period between shoot blade and early kernel formation. In late July and August, however, the ratio decreased rapidly from unity because the ripening and desiccation processes at this stage of plant growth caused a drastic decline in water use.

![Fig. 1](image1.png)

**Fig. 1.** Daily rates of water use for five irrigated crops in southern Alberta.

![Fig. 2](image2.png)

**Fig. 2.** Ratio of measured evapotranspiration to calculated potential evapotranspiration for five irrigated crops in southern Alberta.
in $E_0$. This decrease with approaching maturity was also apparent for potatoes.

Other methods of estimating $E_0$ have been investigated by the authors (3). None of these has provided continuous within-season estimates of $E_0$ that did not require the use of frequently changing parameters and the initial field determination of $E_0$. A radiation-type procedure such as the one used here appears more practical, however. After the crop approaches full foliar development, water requirements can be directly estimated until such time as there is a distinct change in growth habit. This procedure appears to apply to all commonly grown irrigated crops. It provides a much more uniform base for estimation of water requirements than does a daily-rate curve, which varies between crops and is not constant throughout the growing season for any of them. For slowly developing spring-seeded crops, ratios of less than unity would have to be applied to $E_0$ to calculate actual $E_a$. A percent ground-cover factor might be incorporated in the basic equation to reduce the ratio until the crop was transpiring at the potential rate.

There is a striking similarity of the ratio curves in this study to those of Jensen and Haisi (6). The general curve shapes for forages, cereals, and row crops are similar, and the $E_a/E_0$ ratios are approximately the same at equivalent stages of crop development. These results strongly support the contention that this method provides a practical basis for making information determined in one area applicable to another.

1 Private communication relative to unpublished data.

References


### ALBERTA WHEAT POOL

#### VARIETY SURVEY

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July 17, 1974.

Dear Mr. Stuckey:

We have your enquiry of July 3 relative to Agricultural information on crop statistics, etc. We will attempt to answer your questions point by point as follows:

1. Where grains are fallowed the practice is to cultivate when maximum weed growth occurs. Under our conditions in Southern Saskatchewan, this means 3 to 4 cultivations during the 21-month fallow period. Dates of cultivation are approximately June 1, July 5, August 10, September 15.

2. Wheat is our major crop and it is grown primarily in a Fallow-wheat or Fallow-wheat-wheat system. On occasion barley and oats alternate with wheat in a three-year rotation including fallow. On the sandy soils Fall rye is grown in a Fallow-rye system or may be included in rotation with wheat.

3. Durum wheat can usually be distinguished from the non-bearded spring wheats so these could probably be distinguished by color differences. However, our cereal breeders and others in your country are developing new bearded feed and utility wheats which may complicate this picture when these crops have occupied a substantial acreage. Barley is usually a paler green in color so it should be distinguishable from wheat in this area. We would expect rye also to appear somewhat different to these crops from the air particularly since this crop will head well ahead of the spring seeded crops.

4. The number of days between biological stages of development for wheat are approximately as follows: planting to full coverage of ground 37-45; full coverage of ground to heading 15-18; and heading to harvest 40-43 days.

5. We are not aware of any dot distribution maps for these crops on a provincial basis.

Dr. A. R. Mack, Soils Research Institute, Research Branch, Ottawa, Ontario has been involved in coordinating remote sensing studies in Canada. He would be in a position to give you an insight into their results across the prairies.
One of our co-workers here has been collecting data on crop stages in relation to flight passes but unfortunately he is absent from the station. However, when he returns we will discuss crop stages with him and forward any further data he has accumulated which we feel may be of use to you.

Yours very truly,

C. H. ANDERSON,
Senior Research Scientist
Head: Cereal Production and Utilization.
APPENDIX C

CANADA: Summary of Replies from Research Stations

1. Number of Days

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<th>Location</th>
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2. Dates of Summer Fallow (SF) Cultivation:

- June 1 thru August
- May 15 thru September
- April 15 thru July
- June 1 thru September 15

3. Number of Cultivations on Summer Fallowed Land:

- 4 - 5
- 5
- 6 - 7
- 3 - 4

4. % of Land in SF:

- 20 - 30
- 10
- N/A
- N/A

N/A = No answer.
**Average Height of Wheat (inches), 1973**

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Source: Alberta Wheat Pool Crop Reports, 1973

* Data Not Available.
### ALBERTA, CANADA

Wheat, Percentage Seeded, By Districts, 1973

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### Wheat, Percent Cutting Completed, by District, 1973

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### APPENDIX D

**ALBERTA, CANADA**

Wheat, Percent Threshing Completed, By District, 1973

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ALBERTA, CANADA

Oats, Percentage Seeded, By Districts, 1973

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## ALBERTA, CANADA

Oats, Percent Cutting Completed, By District, 1973

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# APPENDIX D

**ALBERTA, CANADA**

**Oats, Percent Threshing Completed, by Districts, 1973**

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## ALBERTA, CANADA

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#### Barley, Percent Threshing Completed, By Districts, 1973

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Last year: 2 4 13 24 33 36 36 60 73 90 No Report

## Spring Rye, Percentage Seeded, By Districts, 1973

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* Report not available.

### ALBERTA, CANADA

Rye, Percent Cutting Completed, By District, 1973

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### APPENDIX D

**ALBERTA, CANADA**

Rye, Percent Threshing Completed, By Districts, 1973

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ORIGINAL PAGE IS OF POOR QUALITY
## APPENDIX F

### REGION II

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| 1                | 22,600         | 604,900           | 9,153    | 15.4                | 164,627               |                              |                             |
| 2                | 98,200         | 1,947,200         | 39,771   | 13.2                | 529,940               |                              |                             |
| 3                | 70,400         | 1,626,000         | 28,512   | 15.4                | 442,524               |                              |                             |
| 4                | 1,340          | 39,800            | 543      | 16.1                | 10,832                |                              |                             |
| 5                | 17,140         | 393,550           | 6,942    | 14.6                | 107,107               |                              |                             |
| 6                | 5,720          | 128,950           | 2,317    | 14.2                | 35,094                |                              |                             |
| 7                | 270            | 4,020             | 69       | 13.5                | 1,094                 |                              |                             |
| 8                | 1,400          | 28,800            | 567      | 13.5                | 7,838                 |                              |                             |
| 9                | 1,030          | 22,780            | 417      | 14.5                | 6,290                 |                              |                             |
| TOTAL            | 218,000        | 4,796,000         | 88,290   | 14.4                | 1,305,255             |                              |                             |

| MONTANA          |                |                   |          |                     |                       |                             |                             |
| 1                | 200            | 6,000             | 81       | 19.5                | 1,633                 |                              |                             |
| 2                | 57,000         | 1,665,700         | 23,085   | 19.0                | 440,347               |                              |                             |
| 3                | 168,000        | 5,355,300         | 68,040   | 17.7                | 1,407,858             |                              |                             |
| 5                | 800            | 16,000            | 324      | 14.0                | 4,354                 |                              |                             |
| 7                | 100            | 2,000             | 41       | 14.0                | 564                   |                              |                             |
| 8                | 400            | 10,000            | 162      | 17.8                | 2,722                 |                              |                             |
| 9                | 3,500          | 75,000            | 1,418    | 14.2                | 20,412                |                              |                             |
| TOTAL            | 230,000        | 7,130,000         | 93,150   | 17.9                | 1,940,460             |                              |                             |

| REGIONAL TOTAL   | 3,328,000      | 105,526,000       | 1,347,840| 21.2                | 28,719,429            |                              |                             |

| NATIONAL TOTAL   | 3,328,000      | 105,526,000       | 1,347,840| 21.2                | 28,719,429            |                              |                             |

<p>| U.S. TOTALS      | 3,420,000      | 108,403,000       | 1,385,100| 21.3                | 29,502,418            |                              |                             |</p>
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**Notes:**
- A = Production
- B = Acres
- C = bushels
- D = per acre (bushels)
- E = metric quintals
- F = per hectare (metric quintals)
**APPENDIX E**

**REGION III TABLE II: ALL BARLEY—1969**

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| 2               | 131,000 | 61.4                | 8,474,700  | 53,055                | 22.0               | 1,230,103         |
| 3               | 80,500  | 55.0                | 4,767,100  | 32,602                | 19.7               | 691,945           |
| 4               | 78,000  | 60.4                | 4,968,400  | 31,590                | 21.6               | 721,183           |
| 5               | 64,000  | 58.9                | 3,853,700  | 25,920                | 21.1               | 559,365           |
| 6               | 21,000  | 32.6                | 1,003,200  | 8,505                 | 18.9               | 145,614           |
| 7               | 33,000  | 56.7                | 1,937,800  | 13,365                | 20.3               | 281,272           |
| 8               | 10,000  | 44.6                | 368,300    | 4,050                 | 16.0               | 53,439            |
| 9               | 4,500   | 40.8                | 170,200    | 1,822                 | 14.6               | 24,705            |
| TOTAL           | 703,000 | 61.0                | 42,883,000 | /284,715              | 21.9               | 1/6,224,467       |

| INDIANA         |       |                    |          |                        |                    |                   |                   |
| 1               | 34,100  | 62.1                | 2,231,200  | 13,810                | 22.3               | 323,859           |
| 2               | 41,900  | 56.5                | 2,449,300  | 16,970                | 20.2               | 355,516           |
| 3               | 81,300  | 61.6                | 5,068,200  | 32,926                | 22.1               | 735,649           |
| 4               | 28,700  | 58.1                | 1,718,600  | 11,624                | 20.8               | 249,435           |
| 5               | 58,200  | 60.7                | 3,555,600  | 23,571                | 21.8               | 516,095           |
| 6               | 47,000  | 59.3                | 2,671,000  | 19,116                | 21.3               | 387,696           |
| 7               | 8,700   | 48.6                | 408,800    | 3,524                 | 17.4               | 59,337            |
| 8               | 10,100  | 49.0                | 471,300    | 4,090                 | 17.6               | 68,409            |
| 9               | 9,800   | 44.5                | 466,000    | 3,969                 | 15.9               | 67,640            |
| TOTAL           | 320,000 | 59.5                | 19,040,000 | 129,600               | 21.3               | 2,763,636         |

| REGIONAL TOTALS | 1,608,000 | 47.6                | 98,193,000 | 651,240               | 17.1               | 1/14,252,715      |
| "NATIONAL TOTAL" | 8,571,000 | 51.1                | 440,727,000 | 3,471,255            | 18.3               | 1/63,971,526      |
| U S TOTALS      | 17,971,000 | 53.7                | 965,863,000 | 7,278,255           | 2/19.2             | 140,195,014       |

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| S. DAKOTA | | | |
|-----------|-------|--------|-------|--------|--------|-------|
| 1 | 3,420 | 26.2 | 72,300 | 3,385 | 16.4 | 775,792 |
| 2 | 125,600 | 32.4 | 3,054,300 | 50,868 | 20.3 | 775,792 |
| 3 | 70,800 | 33.7 | 2,212,500 | 28,674 | 21.1 | 561,975 |
| 4 | 790 | 35.5 | 15,800 | 320 | 17.9 | 4,013 |
| 5 | 36,730 | 31.8 | 1,024,900 | 14,676 | 19.9 | 260,325 |
| 6 | 19,580 | 30.0 | 32,000 | 3,285 | 18.8 | 80,010 |
| 7 | 64,500 | 32.7 | 1,873,000 | 26,123 | 21.5 | 475,742 |
| TOTAL | | 264,000 | 32.1 | 7,128,000 | 106,920 | 20.1 | 1,810,512 |

| MONTANA | | | |
|----------|-------|--------|-------|--------|--------|-------|
| 1 | 100 | 18.5 | 2,500 | 41 | 11.6 | 635 |
| 2 | 2,900 | 26.3 | 64,900 | 1,175 | 18.5 | 16,459 |
| 3 | 1,300 | 18.3 | 28,400 | 3,726 | 15.5 | 54,459 |
| 4 | 200 | 23.8 | 4,800 | 81 | 14.9 | 1,219 |
| 5 | 100 | 18.0 | 1,800 | 41 | 11.3 | 457 |
| 6 | 200 | 27.8 | 7,200 | 81 | 17.4 | 1,829 |
| 7 | 600 | 17.6 | 12,800 | 243 | 11.0 | 3,252 |
| TOTAL | | 8,000 | 21.4 | 168,000 | 3,240 | 13.4 | 1/2,672 |

| REGIONAL TOTAL | | | |
|----------------|-------|--------|-------|--------|--------|-------|
| | 502,000 | 30.3 | 12,471,000 | 203,310 | 19.0 | 3,167,634 |

1/ May not add due to rounding.

REGION IV TABLE IV RYE—1969

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U S TOTALS | 1,291,000 | 22.3 | 30,204,000 | 5,228,550 | 2/14.7 | 7,671,816 |

1/ May not add due to rounding.
2/ 1969 yield only.
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1/ May not add due to rounding.

ORIGINAL PAGE IS OF POOR QUALITY
### APPENDIX E

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#### REGION IV TABLE V CORN FOR GRAIN -- 1969

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| ILLINOIS         |       | 1,626,000 | 97.0 | 173,921,600 | 668,530 | 60.8 | 44,176,086 |
|                  |       | 1,093,100 | 92.5 | 111,564,600 | 465,136 | 58.0 | 28,435,008 |
|                  |       | 1,005,200 | 94.4 | 97,279,100 | 407,106 | 59.2 | 24,708,891 |
|                  |       | 1,485,500 | 104.8 | 170,242,800 | 601,628 | 65.7 | 43,241,671 |
|                  |       | 1,317,100 | 102.1 | 147,589,400 | 453,462 | 67.2 | 37,487,708 |
|                  |       | 1,170,000 | 91.9 | 118,591,200 | 473,850 | 57.6 | 30,122,165 |
|                  |       | 1,092,500 | 89.7 | 110,219,700 | 442,624 | 56.3 | 27,995,804 |
|                  |       | 424,500  | 61.1 | 28,973,200 | 171,922 | 38.3 | 7,359,193 |
|                  |       | 477,700  | 57.3 | 30,414,400 | 133,468 | 39.5 | 7,755,258 |
| TOTAL            |       | 9,698,000 | 102.0 | 989,196,000 | 3,927,690 | 64.0 | 251,255,784 |

| INDIANA          |       | 711,300 | 102.7 | 75,509,700 | 288,077 | 64.4 | 19,129,464 |
|                  |       | 622,500 | 91.6 | 59,041,400 | 252,113 | 57.4 | 14,956,516 |
|                  |       | 417,800 | 85.6 | 35,134,600 | 169,209 | 53.7 | 8,924,188 |
|                  |       | 554,000 | 95.8 | 58,119,100 | 224,370 | 60.0 | 14,762,251 |
|                  |       | 1,841,700 | 97.4 | 111,583,300 | 421,686 | 61.1 | 28,443,758 |
|                  |       | 328,500 | 89.7 | 31,109,300 | 133,205 | 56.3 | 7,301,762 |
|                  |       | 663,500 | 83.6 | 65,259,300 | 268,718 | 52.4 | 16,575,862 |
|                  |       | 150,400 | 76.9 | 13,876,400 | 60,912 | 48.2 | 3,524,606 |
|                  |       | 129,900 | 80.3 | 11,966,900 | 52,610 | 50.4 | 3,039,593 |
| TOTAL            |       | 4,620,000 | 100.0 | 462,000,000 | 1,871,100 | 62.7 | 117,348,000 |

### REGIONAL TOTAL

|            |       | 17,091,000 | 99.1 | 1,692,447,000 | 6,921,865 | 62.2 | 429,881,538 |

### NATIONAL TOTAL

|            |       | 25,924,000 | 91.7 | 2,381,681,000 | 10,499,220 | 55.7 | 604,966,974 |

### U. S. TOTALS

|            |       | 54,574,000 | 85.9 | 4,667,057,000 | 22,102,470 | 53.9 | 1,190,512,478 |

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#### N. DAKOTA

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#### S. DAKOTA

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#### REGIONAL TOTAL

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### Region IV: Table VII Sorghum Grain

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<th>Hectares</th>
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1/ 1969 yield only.
Barley Harvested, 1969
(Class 1-5 farms)

United States Total: 8,263,766
1 dot = 5,000 acres

Oats Harvested, 1969
(Class 1-5 farms)

United States Total: 18,354,025
1 dot = 6,000 acres