Monthly Agromet Bulletin National Agromet Centre (NAMC) Pakistan Meteorological Department Islamabad



Highlights...

• Above normal rains with heavy rainfall/snowfall were reported in most of the agricultural plains during the month. These heavy rains/snowfall and hail damaged/affected crops, livestock and infrastructure in some areas of KP and Punjab.

• Normal to slightly warmer temperature trend was observed in most of the agricultural plains of the country.

• Evaprotranspiration (ETo) remained normal to below normal whereas Relative Humidity (R.H) was recorded above normal in most of the agricultural plains of the country.

• Agricultural soils observed cooler than normal in upper half and slightly warmer in lower half of the country

• Keeping the present soil moisture and dry weather prevailing over most of the agricultural plains, farmers should free the crops from weeds and complete sowing of summer vegetables on time to fully utilize the present soil moisture.

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Explanatory Note

- 1. This Agrometeorological bulletin is prepared on the basis of data from 15 stations of Pakistan Meteorological Department (PMD). These stations, selected in consultation with the agricultural authorities, represent major agricultural areas of the country. There are still important agricultural areas which are not represented by the stations included in the bulletin. This may be (a) because there are no PMD stations in these areas and /or (b) the fact that we had to limit the number of stations due to the requirement of speedy data communication and processing (both of which are important for producing and dispatching timely Agrometeorological bulletins).
- 2. Due to the above, all inferences and conclusions hold true primarily for the above areas and not for Pakistan territory which include areas that may not be very important from the agricultural point of view and the climate of which may not bear directly on agriculture in the major producing areas.
- **3.** The precipitation probability graphs at the end of the bulletin are computed using the long term records of these stations. The precipitations of the current season are plotted in this probability back ground. The use and interpretation of these graphs is clarified by an example. If the precipitation of a month in a station talley to an 80% probability, this means that 80% of the years (or on average 8 out of 10 years or 4 out of 5 years) the precipitation is equal to or less than the amount which was received during this month. One can also conclude that in 20% (100% 80%=20%) of the years (or on the average 2 out of 10 years or one out of 5 years) the precipitations during this month exceeds the present level.
- 4. The evapotranspiration graphs at the end of the bulletin are based on computations using long term records of these stations. The evapotranspiration of the current season are plotted against this background. The reference crop evapotranspiration (ETo) is indicative of the evaporative demand of the prevailing atmospheric condition. It shows the rate of evapotranspiration from an extended surface of 8-15cm tall green grass cover of uniform height, actively growing. Evapotranspiration is, very roughly, 70% to 80% of ETo. However, it ranges from below 10% for a crop just emerging from the soil to over 100% for well watered densely planted tall crops under windy condition.
- 5. The normally expected weather of next month is prepared on the basis of premise of normal or near normal weather prevailing during the coming month. As such it should not be confused with synoptic weather of the next month.
- 6. In the tables, the values in the parentheses are based on 1961 to 1990 normal. Normal values (in parenthesis) of Soil Temperatures are based upon 10 years data. Dotted line (---) means missing data. Solar radiation intensities are computed from sunshine duration using co-efficients developed by Dr. Qamar-uz-Zaman Chaudhry of Pakistan Meteorological Department.

Rainfall distribution (mm) during the month of February, 2013



Crop Report during February, 2013

Spraying/manual Weedicides operations on wheat and other Rabi crops and preparation of land/transplantation of summer vegetables nursery were the major field activities in most of the agricultural plains of the country during the month. Operations of chemical spraying against pest attacks on fruit orchards due to cloudy/moist atmosphere during the month were also in progress. Pace of growth and development of the crops both in irrigated and rainfed areas remained satisfactory due to continuous rains in the agricultural plains of the country in this month.

In **Punjab:** Growth of wheat crop is reported satisfactory both in rainfed and irrigated areas due to good rainfall throughout the month. The crop is reported at shooting/heading stage in most of the agricultural plains of the province. The hails reported in parts of district Bahawalnagar has caused some damage to the crop. Growth of oilseed is reported satisfactory and the crop is at grain formation stage. Growth of gram and lentil has also been reported satisfactory and the crops are at flowering/pod formation stage. Harvesting of oilseed crop has been started at Bahawalpur division. No serious pest attack has been reported on these crops. Harvesting/crushing of sugarcane has almost been completed and good yield is reported. Sowing/land preparation for summer vegetables is in progress.

In **Sindh:** Growth and development of wheat crop in the province is reported satisfactory. The crop is at wax/milk/full maturity stage and its harvesting has started in some areas of Sindh. No pest attack has been reported on the crop. Castor oil is growing satisfactory and its first picking is in progress. Safflower is at vegetative stage and growth has reported good. However a minor attack of black aphids has been reported on the crop due to persistent cloudy/ moist atmosphere during the month. Growth of linseed has been reported well and the crop is at capsule formation stage. Mangoes are at flowering stage and Hopper attack has been reported in some areas of lower Sindh. The growth of other seasonal fruits like guava, banana, Cheeko is in good condition.

In **Khyber Pakhtoonkhawa:** Overall growth and development of wheat crop in the province is reported satisfactory. However, above normal rains/snow occurring during the month may affect the crop growth to some extent in hilly areas. The crop is at shooting/heading/flowering stage. No pest attack has been reported on the crop. Harvesting/crushing of sugarcane has almost completed and good yield has been reported. Sowing/land preparation for summer vegetables has started but farmers are facing problems in transplantation and sowing of vegetables nursery in the fields due to heavy rains reported in this February.

In **Balochistan:** Condition of standing crops like wheat, maize and canola has been reported satisfactory. All these crops are at their early growing stage. Growth of fruit orchards and that of seasonal vegetables is satisfactory and harvesting/picking is in progress.

In Gilgit Baltistan: Most of the agricultural activities stop during the winter season in the area.

Moisture Regime during February, 2013

Winter rains generally continue from December to March in Pakistan. During this winter below normal rains reported from December to January in most of the agricultural plains of the country. However, in February above normal rain along with heavy spells and heavy snowfall were reported. Hail was also reported in some areas of Punjab and KP. These heavy rains/snowfall and hail damaged crops and badly affected livestock and infrastructure in areas of KP and Punjab.



The evaporative demand of the atmosphere represented by reference crop evapotranspiration (ETo) remained below normal in most of the agricultural plains of the country due to cloudy/rainy conditions prevailing in the country. It remained above normal at high elevated Quetta valley and Gilgit.



The mean daily Relative Humidity (R.H) remained normal to above normal in most of the agricultural plains of the country except high elevated plains of Quetta valley and Skardu where it remained slightly below normal. Maximum value of mean Relative humidity was observed 73% at D.I.Khan followed by 71% at Rawalpindi and Sargodha. The minimum value was observed at Gilgit as 51 %.



From overall analysis, it is evident that wet atmospheric and soil conditions observed in this month. Due to which the moisture stress condition which prevailed over most of the agricultural plains for the last three to four months have finished. Therefore rains occurred in this month have produced good atmospheric conditions for the development and growth of the crops. However wet conditions sometime favor pests attack on standing crops. Therefore farmers must be careful about timely and proper use of pesticides to avoid/minimize losses caused by such attacks. Heavy rains also speeds up weeds growth especially in wheat crop. Farmers should remove weeds through chemical spraying at heading/flowering stages in Punjab and KP.

Temperature Regime during February, 2013

Temperature plays vital role in the growth and development of crops. Thermal regime in this month remained normal or slightly above normal in most agricultural plains of the country.

Mean daily temperature remained normal to slightly above normal (by 1°C) in most of the agricultural plains of the country. Mean daily temperature ranged 13 - 17°C in Khyber Pakhtoonkhawa, 13 to 15°C in Potohar plateau, in remaining parts of Punjab it ranged 15-17°C, in Sindh it ranged 18-19°C, in Gilgit Baltistan region it ranged 2 to 8°C and was observed 7°C in the high elevated agricultural plains of Balochistan represented by Quetta valley.

The day time temperature represented by mean maximum remained normal to below normal by 1-2°C in most of the agricultural plains except Skardu region where it remained above normal by 1°C. The highest maximum temperature in the agricultural plains of the country was recorded 31.5°C at Tandojam. The night time temperature represented by mean minimum remained above normal by 1 to 3°C in most of the agricultural plains of the country except Tandojam region of lower Sindh, where it remained slightly below normal (by 1°C). The lowest minimum temperature was recorded -10.5°C at Skardu.

Maximum number of stress days with minimum temperature less than or equal to 0°C was observed for 27days in Skardu, followed by 9 days in Quetta valley and 8 days in Gilgit. Number of stress days with maximum temperature greater or equal to 30°C or 40°C and R.H. less than or equal to 30% was nil in all agricultural plains of the country .



The night time temperature represented by mean minimum remained normal to above normal by 1 to 3° C in most of the agricultural plains of the country. However, in Lahore and Sargodha, the night time temperature remained above normal by 1-2°C. The lowest minimum temperature was recorded –

11.7°C at Skardu and extreme maximum temperature during the month was recorded 30°C at Tandojam.



Agricultural soils showed mostly normal or cooler trend in most agricultural areas in upper half the country. However, normal to slightly warmer trend in lower half of the country. In Rawalpindi and Faisalabad divisions soil moisture was observed fairly below normal at shallow as well as at major root zones. Soil temperature was observed slightly above normal at major root zone at Quetta division and Tandojam region.



From the general analysis of soil behavior in this month, it is concluded that crop growth and development are free from moisture stress due to above normal rains in most of the agricultural plains during the month, especially in rainfed areas of upper half of the country, which is an indicator of normal yield of Rabi crops.

Solar Radiation and Wind Regime during February, 2013

Total bright sunshine hours and solar radiation intensity showed falling trend in most of the agriculture plains in this month. Mean wind speed throughout agricultural plains of the country reached up to 5 km/h with North to North-West trend.







Comulative Rainfall, ETo and water stress for Rabi Season (Oct to April)

Rainfall Departure from Normal (mm) during the month of February, 2013



Minimum Temperature Departure from Normal (°C) during the month of February, 2013



ETo Departure from Normal (mm/day) during the month of February, 2013



Normally Expected Weather during March, 2013

March is normally the wettest month of winter season. Heating starts over the subcontinent due to increasing solar angle and the sun shine over the equator during last decade of the month. Heating trend triggers energetic weather systems, which resulted in increasing number of dust / wind storms and precipitation. March marks substantial addition to Rabi season precipitation and rising temperatures contribute significantly in photosynthesis process. The probability of occurrence of rainfall during March over Potohar plains is given below:-

Amounts/	Percentage Probability of Occurrence of different Amounts of Rainfall in					
Dates	March					
	1-5	6-10	11-16	17-20	21-25	26-31
10 mm	26	30	29	51	43	40
15 mm	22	23	21	36	35	23
25 mm	13	18	16	21	22	14

Potohar plateau and northern KPK may receive precipitation ranging from 160mm to 190mm depending upon location. However, remaining parts of Punjab, KPK and high agricultural plains of Balochistan are likely to experience precipitation between 125mm and 150mm. The rainfall amounts in rest parts of the country would also be significant.

The level of mean daily relative humidity is expected to drop as compared to January/February and would range between 45% and 60%. The daily evaporative demand of the atmosphere will increase with increasing temperature trend and mean daily values averaged over the month would vary from 3mm to 4mm in KPK, Punjab and high plains of Balochistan. However, ETo values would rise to 5mm/day in Southern Sindh and lower Balochistan.

The mean daily temperature would follow an increasing trend from north towards south and will vary between 17°C and 26°C whereas in Quetta valley it would be around 11°C. The daily maximum is likely to make monthly average as 24 to 34°C and minimum as 10 to 18°C from north towards south. The occurrence of freezing temperature is likely in Quetta valley, whereas daytime temperature may approach to 40°C in lower Sindh.

The mean daily duration of bright sunshine is likely to range from 7 to 9 hours following an increasing trend from north towards south. The mean daily wind speed may vary between 4 to 10 km/hr and would prevail mainly from north and west direction.

Wheat is the major Rabi crop in the agricultural plains of the country growing at different phonological phases e.g. at shooting in high agricultural plains of the country and heading to grain formation in low elevation plains during March. The crop water requirement of wheat in different regions is given as under:

S.No	Region	Water Requirement		
		(mm)	Cubic Meter/Hectare	
1	Northern KPK and adjoining Punjab and high pl of Balochistan.	90-110	900-1100	
2	Most of Punjab and Southern KPK.	120-140	1200-1400	
3	Sindh and lower Balochistan.	140-150	1400-1500	

Seasonal Weather Update

Introduction:

Regional weather (precipitation and temperature) outlook is predicted from different global climate models by using persisted sea surface temperature on 0000 Mar 01, 2013. That might be somewhat different from actual weather because of time to time variation in Sea Surface Temperature (SST) during the season. Accuracy of Outlook seasonal weather mainly depend upon SST used in global climate models. Even with use of accurate SST, still be uncertainty in the climate forecast due to chaotic internal variability of the atmosphere.

Synoptic situation:

- Jet stream (Zonal wind at 200 hPa) is expected to be stronger over west of the country from normal in March and tilted toward central parts of the country. Expected jet stream speed over central parts of the country will be 45 m/sec which is about 5 m/sec higher than normal (1982-2012) during March. Maximum convergence area over the west of the country will be expanded from normal during current month.
- Current synoptic situation shows the development of low pressure trough at the height of 500 hPa over central parts of the country. Trough over west becomes deeper during March.
- Surface temperature pattern is expected same as normal (1982-2012) values during March 13 over the country.
- North Atlantic Oscillation (NAO) is in slightly negative phase (nearly zero) and may effect on normal western disturbances track in the region. Horrell pc-based monthly calculation of NAO).
- Most of the set of dynamical and statistical model predictions weak La Nina conditions for the February-April. In the most recent week, the SST anomaly in the Nino3.4 regions was -0.3°C.
- Arabian Sea Surface Temperature is lightly above normal.
- Caspian Sea surface temperature is lightly above normal.
- Mediterranean Sea surface temperature is 0.5°C higher from normal.

Seasonal Weather Outlook (Mar-May, 2013)

Precipitation:

Normal pattern and track of weather systems will be expected during whole spring season. As considering all present synoptic situation and variation in climatic indices it is observed that coming spring season will be slightly wet during last two months i.e. April and May. However average rainfall is likely to occur during March, 2013.

- Above normal rainfall over FATA, and Gilgit Baltistan.
- Below normal precipitation over Kashmir.
- Normal to slightly above normal over Punjab, Sindh Baluchistan and KP.

Temperature:

As per persisting synoptic situation, as a whole, no remarkable variation in expected temperature will be observed in all parts of the country. Slightly below than normal temperature will be expected during March over central parts of the country whereas slightly higher than normal during April.

Monthly Quantitative Weather Forecast

Mar-2013					
Province	Average	Expected			
GB	34.6	Above Average			
КР	92.5	Average			
АЈК	127.5	Below Average			
FATA	67.4	Above Average			
PUNJAB	30.9	Average			
BALUCHISTAN	23.3	Average			
SIND	4.7	Average			
Pakistan	27.17	Average			

Precipitation is in mm/month

Below Average > -10 %, Average precipitation range = -10 to +10 %, Above Average > +10%

Note: Average precipitation is computed by using Global Precipitation Climate Center (GPCC) gridded data by resolution $(0.5^{\circ}x0.5^{\circ})$ latitude by longitude. Ensembles of different climate models are used for computation of expected precipitation over the region.

Spatial distribution of expected & departure rainfall during March, 2013



Excepted rainfall during March 2013

Departure from normal rainfall during March 2013

Spatial distribution of expected & departure minimum temperature during March 2013

Excepted min temperature during March 2013



Departure of min from normal during March 2013



مارچ2013ء میں کاشتکاروں کے لیےزرعی موسمیا بی مشورے

ما دفر وری میں پورے ملک کے زیا دہر زرق میدانوں میں معمول سے زیا دہ بارشیں ہو کی ۔جس سے کھیتوں میں ٹی کی کی پوری ہو کتی ہے ۔ ماری کے مینیے میں بھی معمول کے مطابق بارشیں متوقع میں ۔ اس لیے نہر کی علاقوں کے ساتھ مارانی علاقوں میں بھی گندم اور دور کی فصلوں کی نشونما میں کا فی بہتر کی آجائے گی اور گندم کی اچھی پید دار متوقع ہے۔

۔ مسلسل بارشوں اور طلع ابر آلودر ہے۔ ہوا ش ٹی بڑا ھجاتی ہے۔ جس کی وجہ فصلوں پر بیاریوں یا معتر کیزوں کے حلوں کا خطر ہید ھجا تا ہے۔ کسی بھی بیاری یا زہر لیے کیزوں کے تسلے کی صورت میں کسا<mark>ن هنر ان کونا کید کی</mark> جاتی ہے کہ بروقت تحکہ زراعت کے منظور کروہ کیز میا را سپر <u>کر کے ضمل کو</u>فقصان سے بیچا نمیں۔

۲۔ ماری کے مینیے میں درجہ حرارت فروری کی نبست کانی بدھوجا کم کے اورد رجہ حرارت کے بدھنے ضمل کی نشود فراہمی بدھوجاتی ہے۔ پہاڑی علاقوں میں شدید مردی کی دہمے محدم کی فصل کی نشود فراست ہور دی تھی جواب بہتر ہوجائے گی۔ کوئد جیسے بلند زرق میدانوں میں محدم مفرور کی کے مینیے میں یونا کرنے کے مرحلے میں تھی جو کہ ماری کے مینیے میں تنابنانے کے مرحلے میں داخل ہوجائے گی۔ یونا کرنے کے مرحلے میں ورجہ حرارت کم ہے کم مطلوب ہوتے ہیں اس کی نظر کی معاقوں کے زرق میدانوں میں محدم مفرور کی کے مینیے میں یونا کرنے کے مرحلے میں تھی جو کہ ماری کے مینیے میں تنابنانے کے مرحلے میں داخل ہوجائے گی۔ یونا کرنے کے مرحلے میں ورجہ حرارت کم ہے کم مطلوب ہوتے ہیں اس کی نظر کی علاقوں کے زرق میدانوں میں فرور کی کے درجہ حرارت نیا بینہ مار کا در باور گند میں فرق میں کوئی میں خواج کی میں میں میں معانوں میں معاد کر م

۳۔ ماہرین زراعت اگر کھاد کے استعال کا مشورہ ویرتہ بارانی علاقوں کے کا شتکار بارش کی پیشکونی ہے ایک دن قل کھیتوں میں کھاد ڈال ویں یکر اس سے قل اہمی وقت بر کہ کھیتوں کو جند کی یوٹیوں سے بالکل صاف کر دیاجائے تا کہ کھادکا خائد ہ صرف اور صرف فصل کے بودوں کو ہوورنہ جند کی یوٹیوں کھاد سے استعادہ کر کے فصل پر چھاجا نمیں گی اور فصل کی پیداوار بر کی طرح متاثر ہوگی جند کی یوٹیاں فصل کے بودوں سے مومازیادہ پانی استعال کرتی جن اس لئے جند کی یوٹیوں کا کھیت سے خاتم مار میں کی اور کی طفق کے لئے تحکہ زراعت کی سفارش کر در مختلف کیمیاتی اددیا کی جاستی ہیں سائر کیمیاتی طریقے سے مکن نہ ہوتھ ہاتھ سے جند کی یوٹیوں کا تعداد کر میں اور اس میں بیٹیوں کا کھیت سے خاتم ماشد طرور کی بیٹیوں کی یوٹیوں کی طفق کے لئے تحکہ زراعت کی سفارش کر در مختلف کیمیاتی اددیا کی جاستی جی سائر کیمیاتی طریق ہے مکن نہ ہوتھ ہاتھ سے جند کی یوٹیوں کا تعد کر میں اور کی د

۳ ۔ زراعت کی کامیا بی شرمومی حالات کا بہت عمل دخل جاور بہتر حکت عملی نے فیرموزوں مومی حالات سے بھی استفاد ہ کیاجا سکتا ہے محکہ موسمیات کی ہیشگونی کو ط خاطر رکھ کر تحکہ زراعت کے ماہرین کی مشاورت سے اپنے معمولات طے کریں تو پید وار ش خاطر خواہ اضافہ مکن ہے مومی حالات سے متعلق مزید معلومات کیلیے تحکہ موسمیات سکتر میں وینتر سے راجلہ کیاجا سکتا ہے جن کا پیہ درج ذیل ہے۔

سوس ہوتا ہوتا ہوتا ہوتا ہوتا ہوتا ہوتا ہے ہمیں سے مرتک کے بعد سے مرتک کی جائیں ہوتا ہے۔ مونگ کی خریف کا شت آبپا ش علاقوں میں 25 مئی تا 15 جون جبکہ بارانی علاقوں میں مون سون کی بارشیں شروع ہونے پر جولائی کے دوسرے ہفتے تک تکمل کر لیں ۔اوراسطرح ماش کی فصل کے لئے جولائی کا پورا مہینہ کا شت کے لئے موزوں ہے بارانی علاقوں میں کا شت جون کے آخری ہفتہ سے جولائی کے دوسرے ہفتے تک تکمل کر لیں ۔اوراسطرح کا پہلا ہفتہ کا شت کیلئے زیا دہ موزوں ہے ۔

<u>ېژى بو ٹيوں كى تلقى :</u>

جڑ ی یوٹیاں ہوا،جگہ ،پانی اورغذائی اجزاء کے حصول کے لئے اصل فصل سے مقابلہ کرتی ہیں اس لیے یہ جڑ ی یوٹیاں کسی بھی فصل کی پیدا دا رکومتا تر کرنے میں بنیا دی عضر ہیں ۔ماش اورمو مگ چونکہ درمیانی جسامت کی فصلیں ہیں اس لئے ان کوجڑ ی یوٹیا کافی فقصان پہنچاتی ہیں ۔لبذاما ش اورمو مگ کی اچھی پیدادا رحاصل کرنے کے لئے جڑ ی بوٹیوں کی دہمہ سے ان فصلوں کی پیدادار میں 25 سے 55 فیصد تک کی ہو سکتی ہیں ۔بارش کے بعد چونکہ جڑ ی یوٹیوں کی برطور کی بختی ہیں اس لئے اور کی تعام کی اچھی پیدادا رحاصل کرنے سے لئے جڑ ی تو میں کی دہمہ سے ان فصلوں کی پیدادار میں 25 سے 55 فیصد تک کی ہو سکتی ہیں ۔بارش کے بعد چونکہ جڑ ی یوٹیوں کی برطور میں بھی جاتی ہوئی اور کی لئے جڑ ی تھام پر خصوصی توجہ ضرور کی ہے ۔

<u>آيا ٿي :</u>

بہار بیونگ کوئین چارد فعد آبیا شی درکارہو تی ہے ۔ پہلاپانی اگاؤ کے تین چار ہفتہ بعد ۔ دوسراپانی بیکول نظنے پرا ور پھرا یک یا دوبا ریانی حسب ضرروت دو ہفتے کے وقفے سے پھلیاں بننا ور پھلیوں میں داند بننے پر دی خریف مونگ کو دو تین دفعہ آبیا شی درکا رہوتی ہے ۔ پہلا پانی اگاؤ کے تین چار ہفتہ بعد ۔ دوسراپانی پیکول نظنے پرا ور پھرا یک بارپانی حسب ضرورت دیں ۔ اس دوران با رش ہونے کی صورت میں آبیا شی دھیا ن سے کریں ۔ پانی کی کی کی صورت میں اگر صرف ایک آبیا شی میں رہوتہ پھول ولئے پرا ور پھرا یک وقت آبیا شی خرورت دیں ۔ اس دوران با رش ہونے کی صورت میں آبیا شی دھیا ن سے کریں ۔ پانی کی کی کی صورت میں اگر صرف ایک آبیا شی میں رہوتہ پھول ور پھلیاں بنخ وقت آبیا شی خرور کریں ۔ زیا د ہا رش کی صورت میں آ ندیا نی کی کی ماں سب بند واست کریں ۔ سب ضر ورک میں ۔ زیا د ہا رش کی صورت میں زائد پانی کے نکا س کا منا سب بند واست کریں ۔ سب ضر ورت کریں ۔ زیا د دبا رش کی صورت میں زائد پانی کے نکا سکا منا سب بند واست کریں ۔ میں میر ورز سے زیا دوبا رش کی صورت میں زائد پانی کے نکا سکا منا سب بند واست کریں ۔ میں میر ورز تی نی را رانی نی درکارہوا ہے ۔ پہلا پانی اگاؤ کے تین ہفتہ لعد دوسرا پھول نظنے پر اور تیسرا دانہ پھلیاں بند پر لگایا جا تا ۔ ۔ اگر اس دوران با رش ہوجا نے تو آبیا شی میں مین وار تا ہے ۔ گر اس دوران با رش ہوجا نے تو آبیا شی کی میں میں میں میں رہو ہول کائے پر ای کی تی ہور کریں ۔ تو میں میں میں دورت کریں دوبا پانی را پانی رانی پانی کی کا کس کا منا سب بند واست کریں ۔

1.Agripunjab.com.pk 2.www.growerspulses.com