

Overview of 2016 Summer climate and crop over central agricultural region of Mongolia



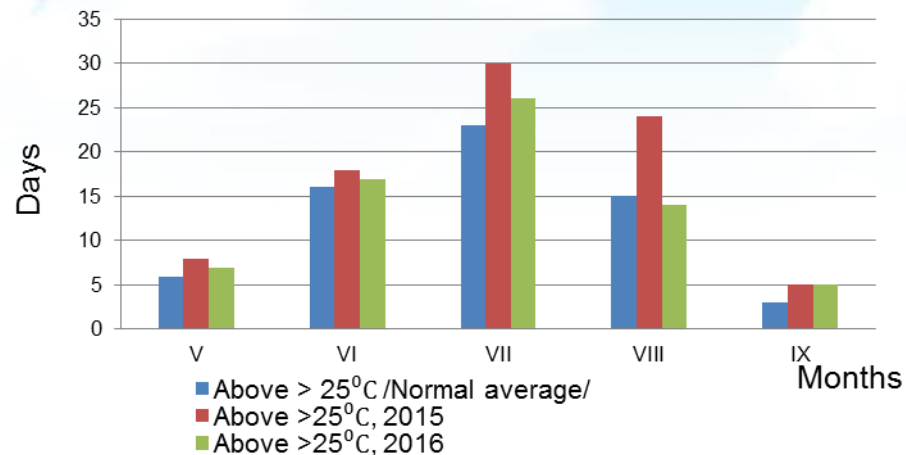
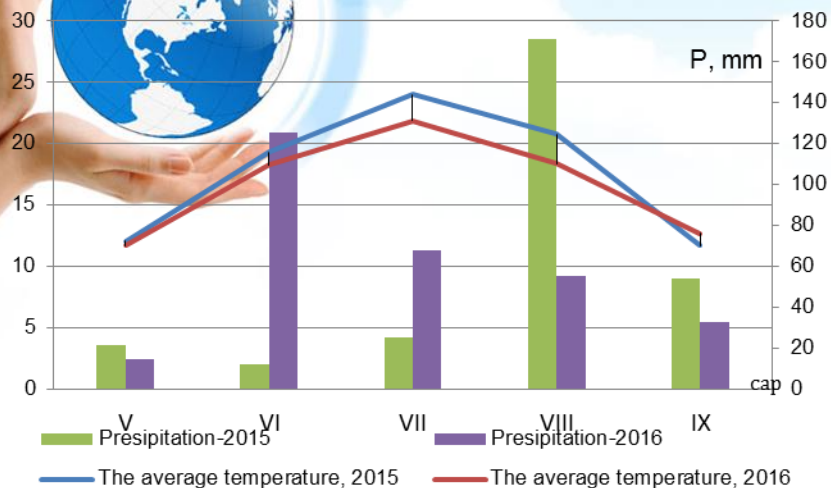
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OBJECTIVIES

THE OBJECTIVE OF THIS STUDY FOCUSED TO REVEAL RELATIONSHIP BETWEEN WEATHER IN GROWING SEASON OF 2016 AND ITS EFFECT TO PASTURE GROWTH AND WHEAT YIELD IN THE CENTRAL CROPPING REGION

Temperatura and precipitation

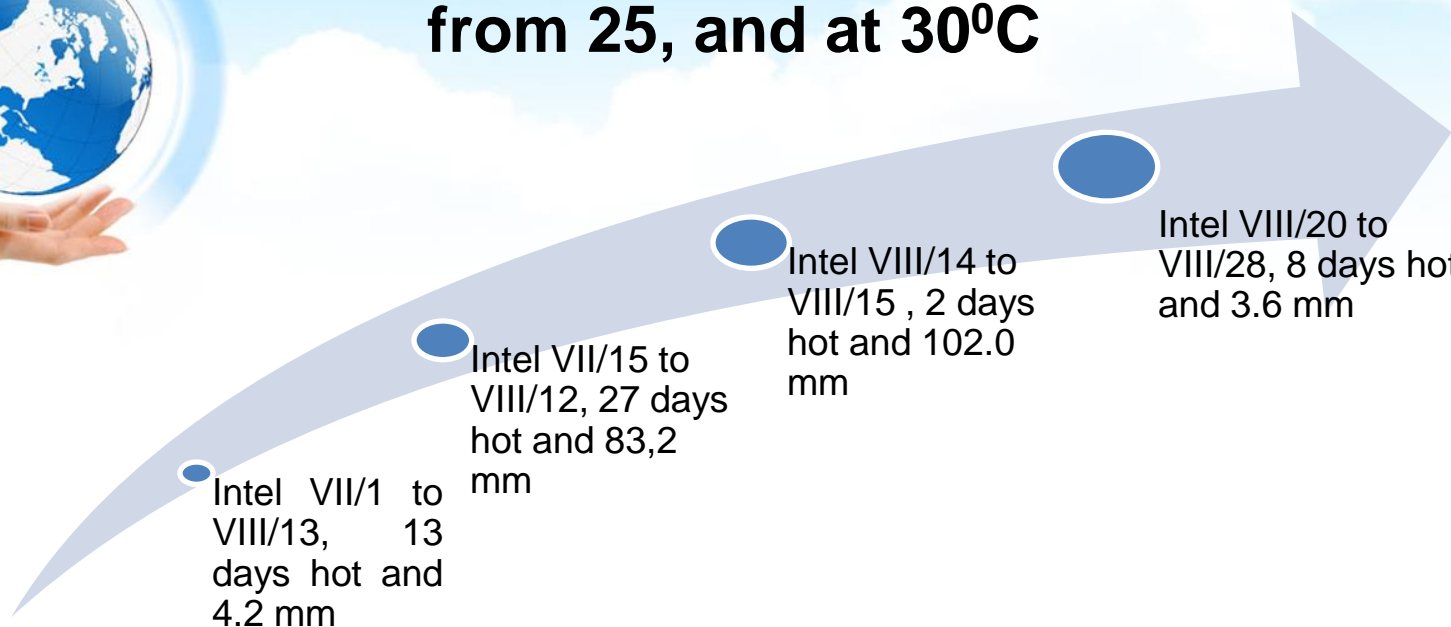


First 9 days hot >25° and precipitation 15,5 mm

Second 9 days hot >25° and precipitation 51,3 mm

Third 8 days hot >25° and precipitation 16,3 mm

Hot air temperature was the number of days from 25, and at 30°C



Specification			months				
			V	VI	VII	VIII	IX
Normal average	Above 30°C<		2	5	6	2	2
Air temperature	Above 25°C<	2015	8	18	30	24	5
		2016	7	17	26	14	5
	Above 30°C<	2015	2	12	21	11	1
		2016		4	11	4	

Temperature and rainfall index growing season

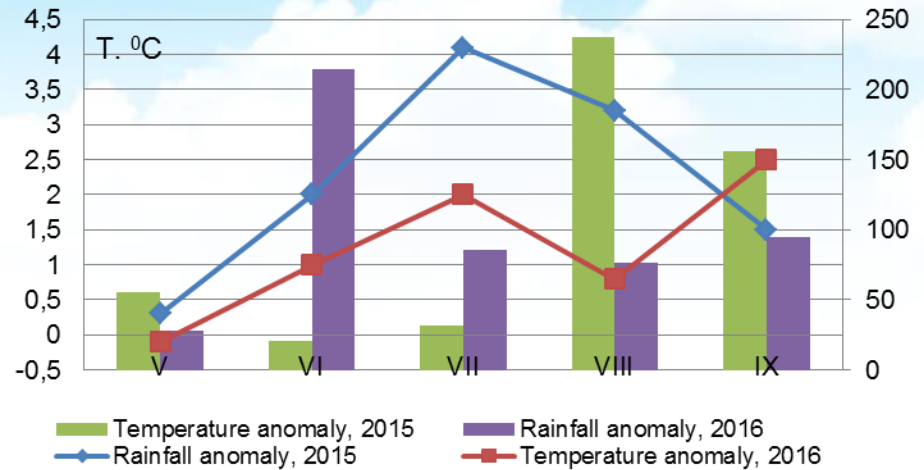
1.2
Moisture scarce, 2016

1.1
Moisture extreme scarce, 2015

Temperature and rainfall index during months V,VI

Acceptable, 1.7 -2016

0.4
Dry, 2015



The maximum temperature, 2016

Maximum air	Soil surface	Soil surface temperature above 40°C<	Soil surface temperature above 60°C<
VIII/2 37,4°C	VII/31 62,9°C	V-IX, 112	VII/30-VIII/2, 4



Fallow field layer

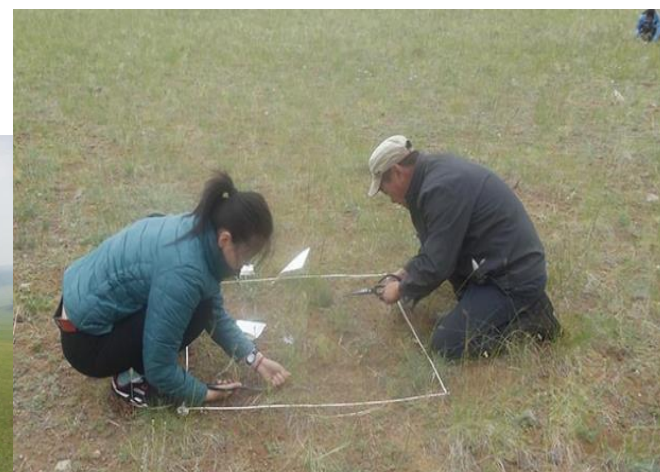
Soil moisture	Years	Soil depth, mm		
		0-20	0-50	0-100
Moisture, mm	2015	42.0	82.0	191.6
	2016	30.1	80.8	134.2
Differences		11.9	1.2	57.4





Distribution of pasture crops, tons per ha

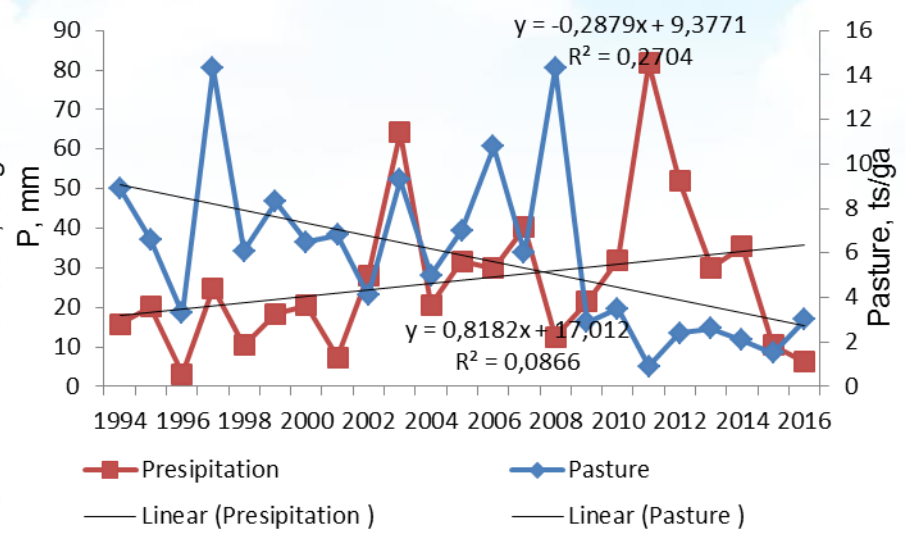
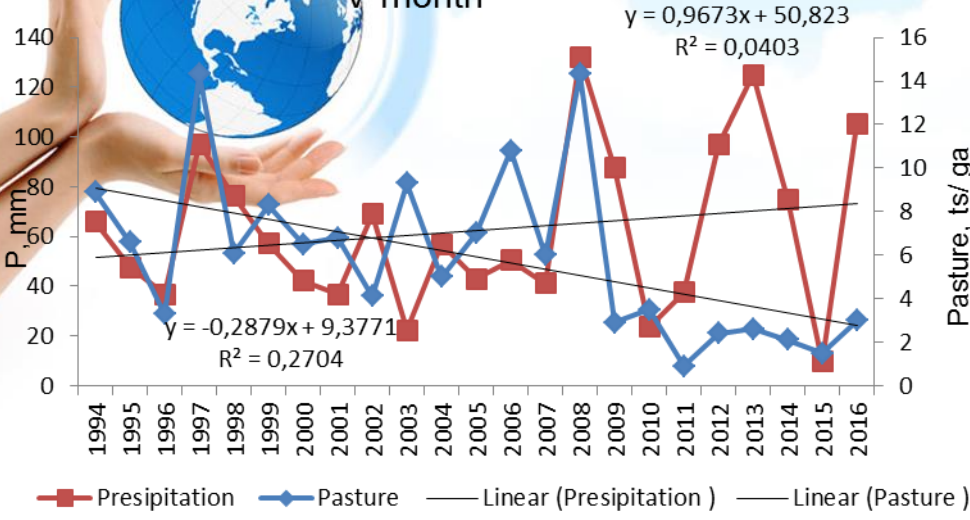
Year	Monts					Normal
	V	VI	VII	VIII	IX	
2015	0.5	0.3	0.3	3.0	3.5	1,5
2016	1.4	2.4	5.5	3.3	2.5	
Diferencias	1.2	2.1	5.2	0.3	1.5	



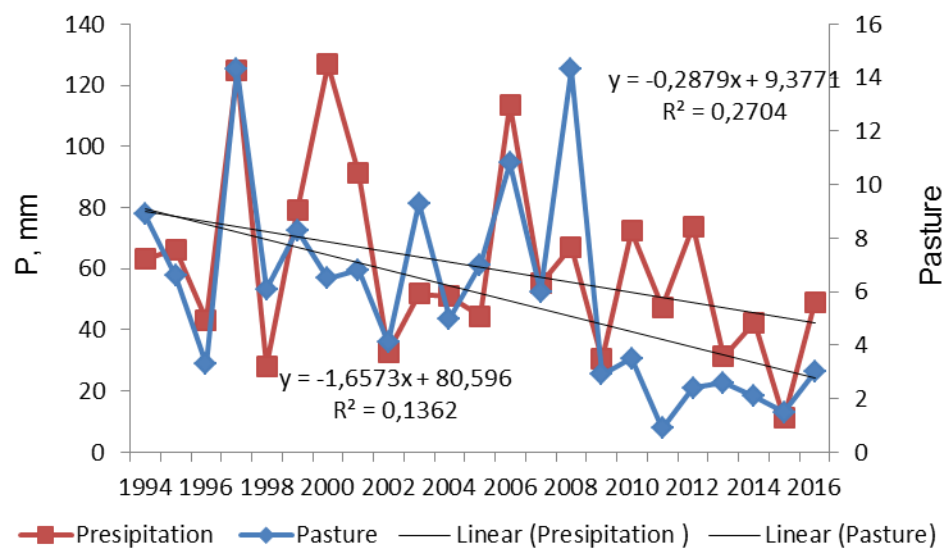
Rainfall VS pasture growth



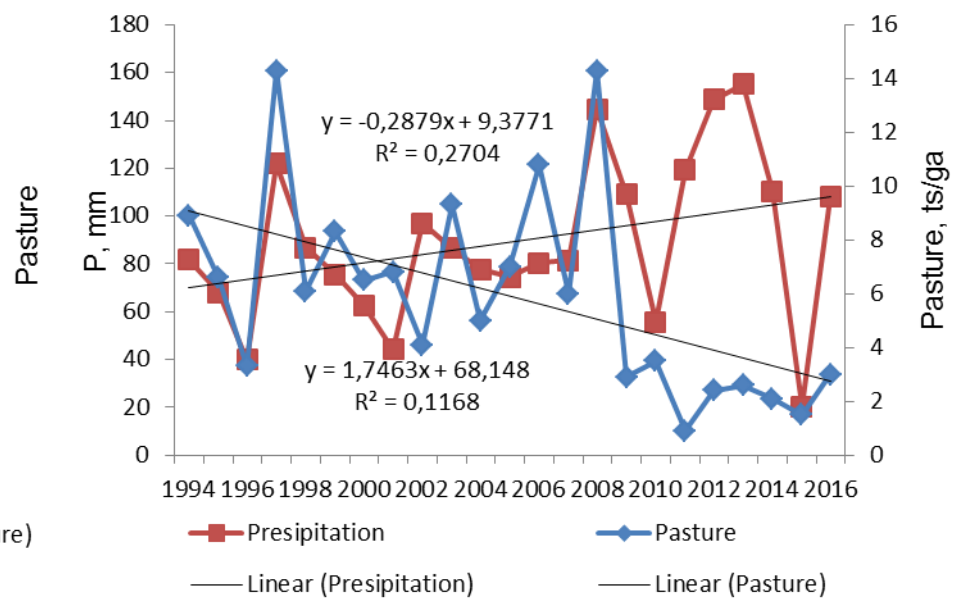
V month



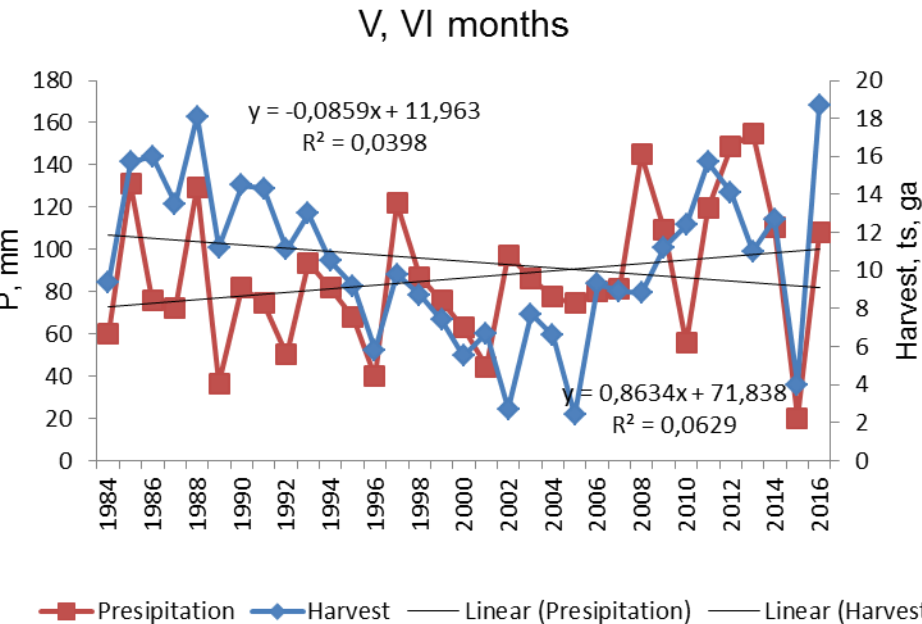
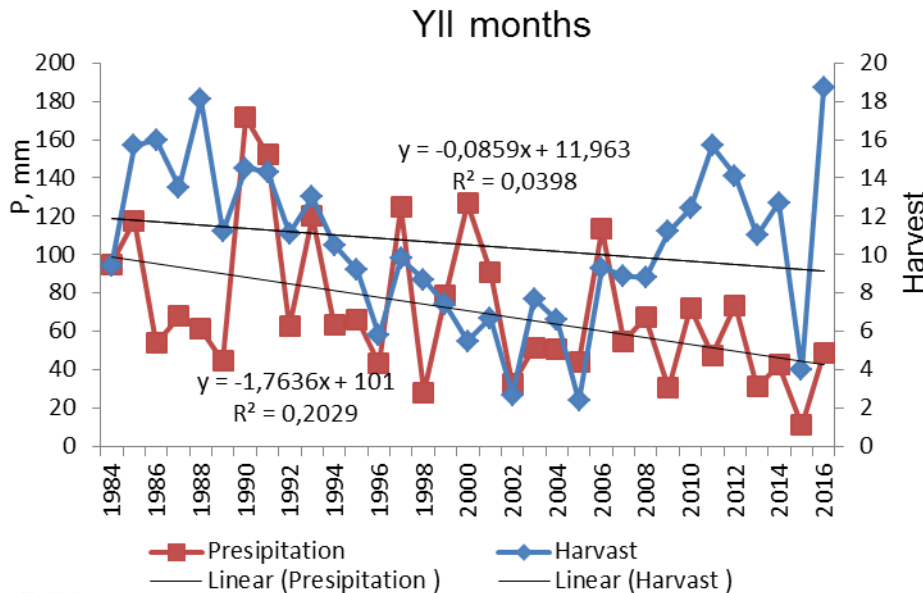
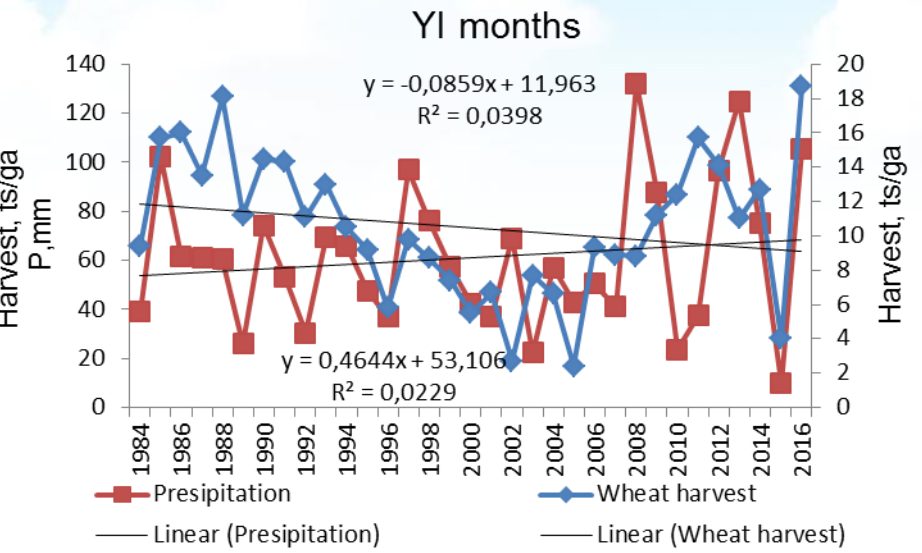
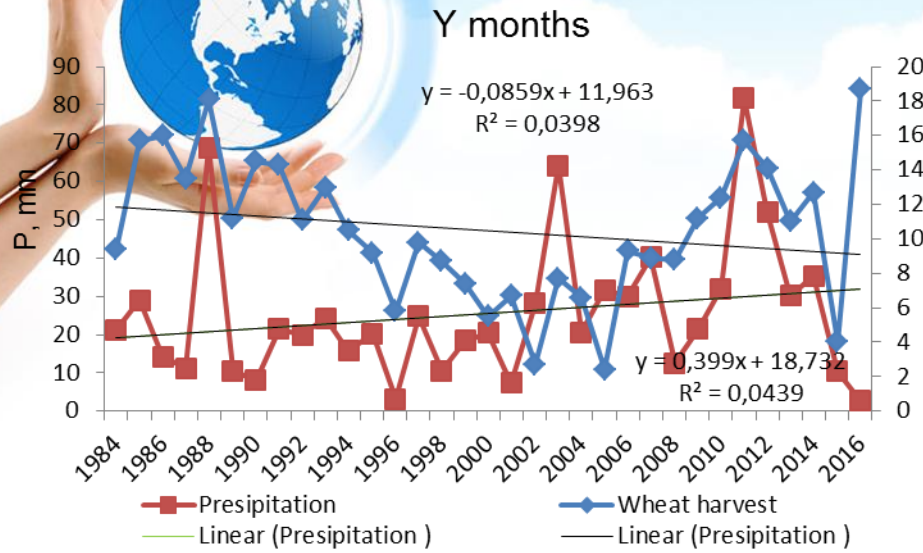
VII month



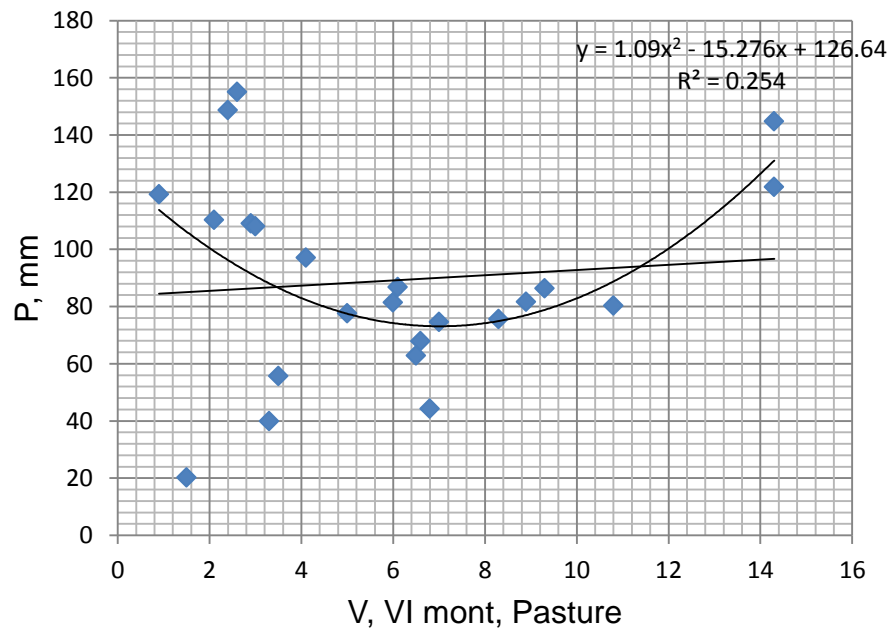
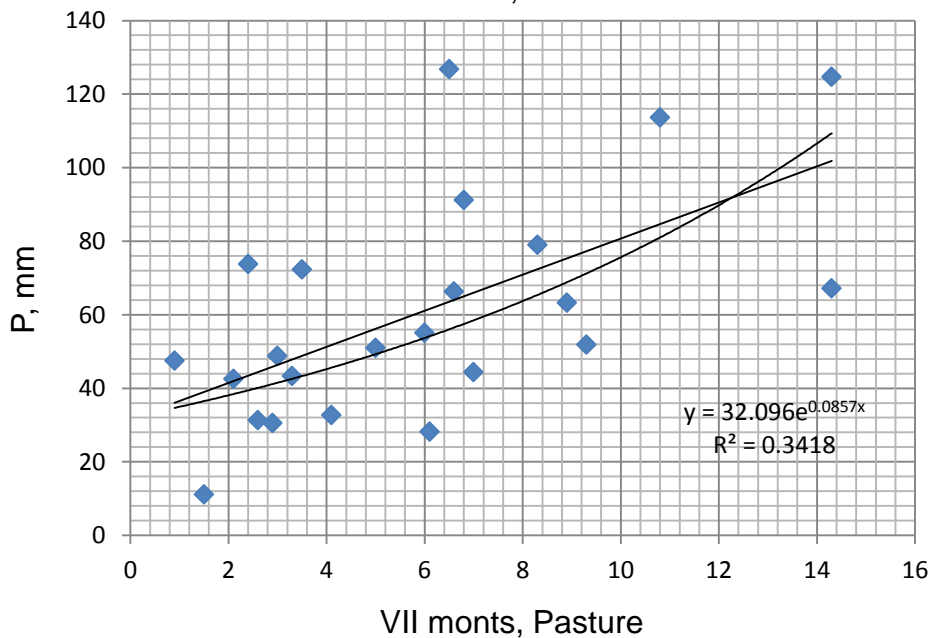
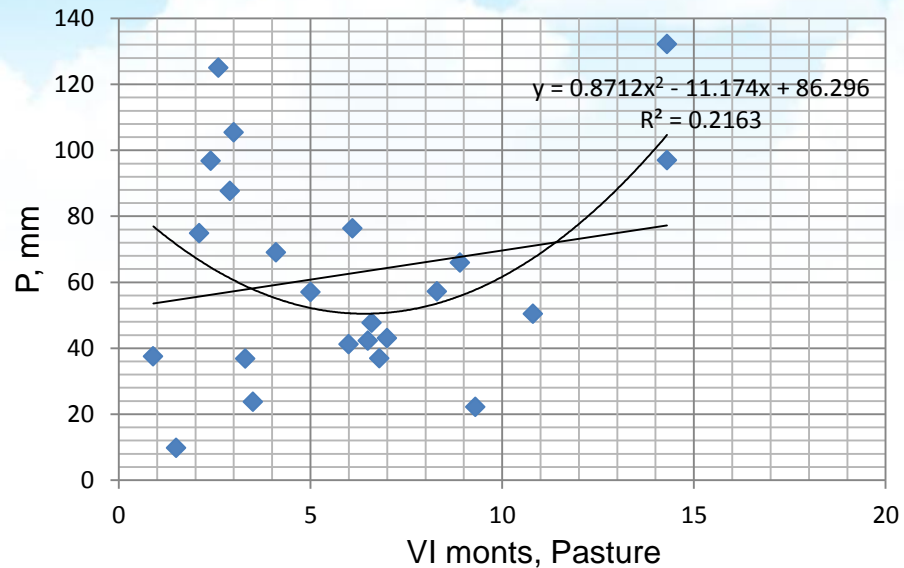
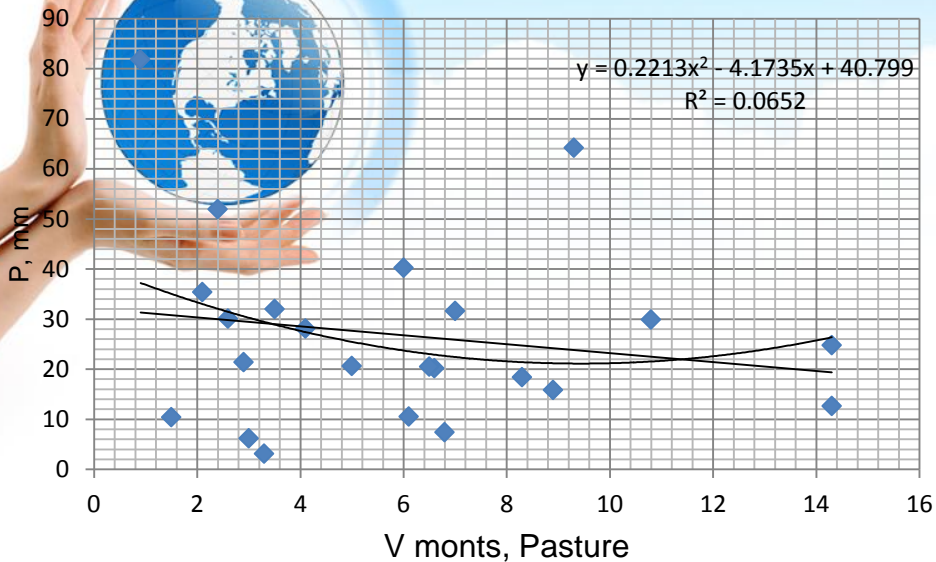
V, VI month



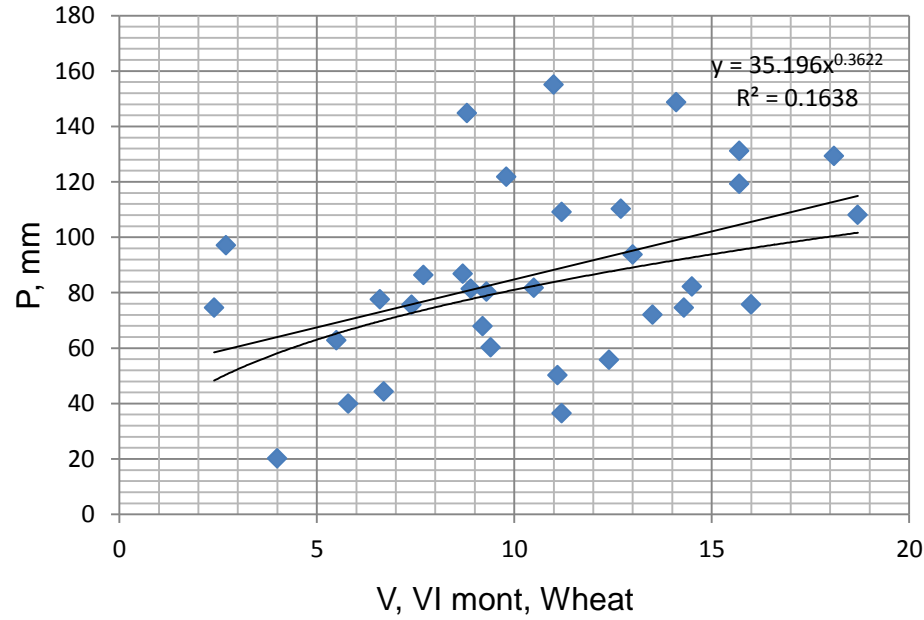
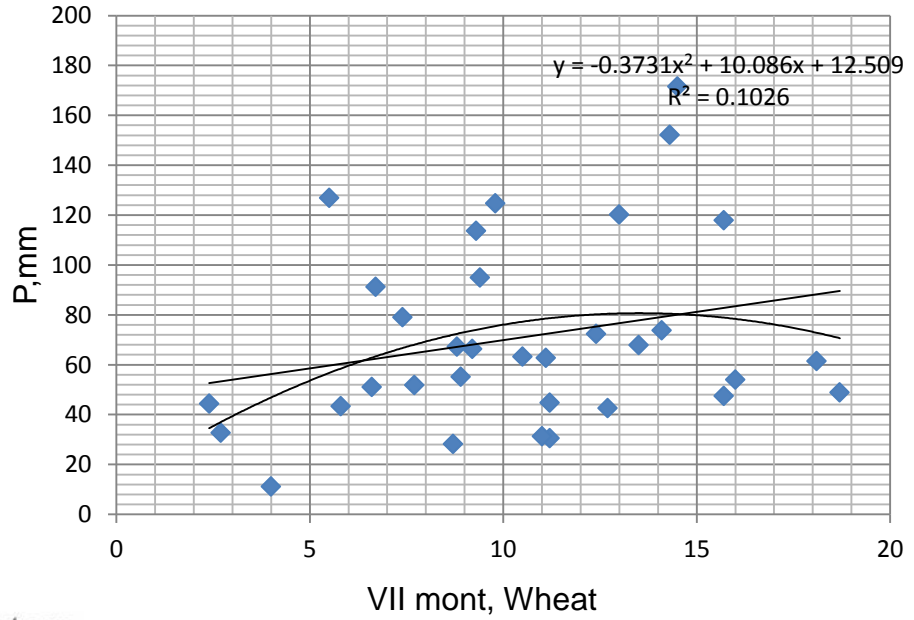
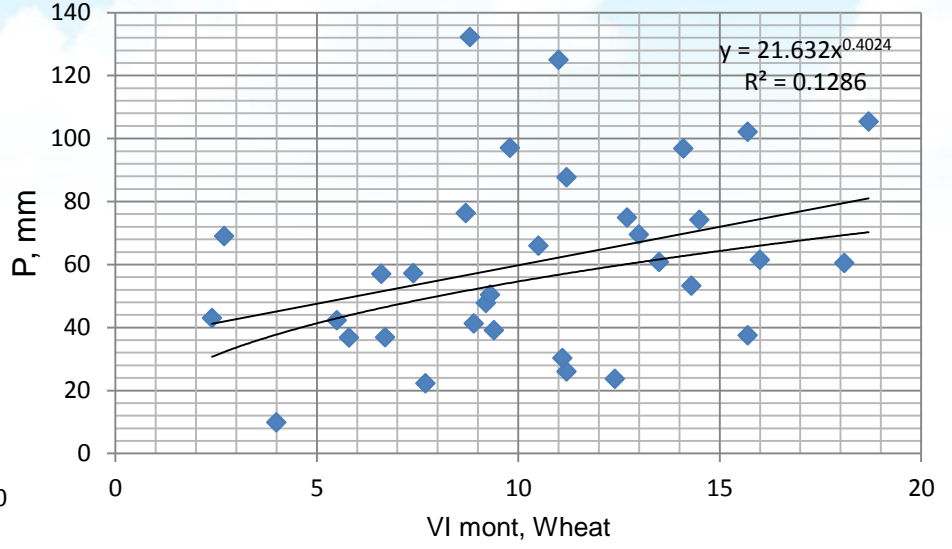
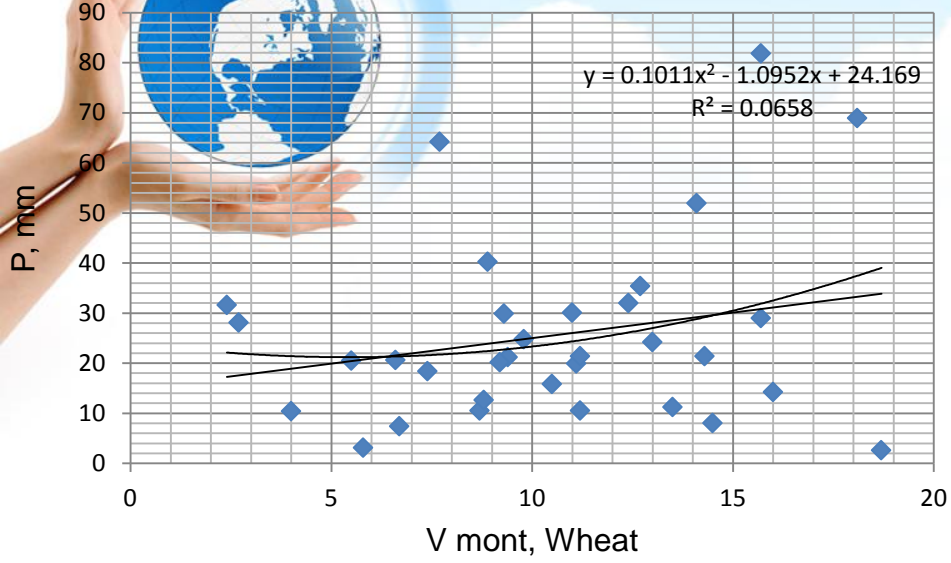
Rainfall VS wheat harvest



Rainfall VS wheat harvest



Rainfall VS wheat havest



Wheat harvest in Darkhan-Uul areas

Tsaidam

Бурятская
остистая

wheat harvest
0,2 ton 2015

wheat
harvest
1,4 ton,
2016

Altangadas

Darkhan-144

wheat
harvest
0,3 ton 2015

wheat
harvest
3.0 ton,
2016

6-r brigad

Darkhan-144

wheat harvest
7.0 h/ha, 2015

wheat
harvest
1,2 ton,
2016





CONSLUSION

1. WARMING IS RAISING ACCORDING TO WEATHER CHANGE IN MONGOLIA, ESPECIALLY, HOT DAY FREQUENCIES IN JULY INCREASED, AS IN 2016 MAXIMUM AIR TEMPERATURE REACHED 37⁰C DEGREES AND SOIL SURFACE MAXIMUM 62.9⁰C DEGREES.
2. NUMBER OF HOT DAY FREQUENCIES IS INCREASED IN CENTRAL CROPPING AREAS, IN 2016 REACHED TOTALLY 34 DAYS.
3. THIS YEAR'S WEATHER FINENESS PROVIDED AN ADEQUATE HARVEST OF PASTURE GRASS 0.55 TONS PER HA AND WHEAT 1.76 TONS PER HA.

Thank you for attention

