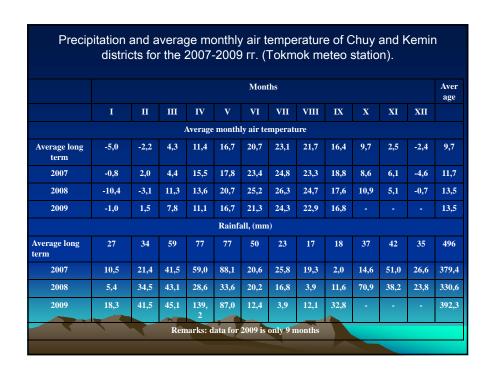


Agriculture

- Total area of pasture of Chuy province is 859 thousand hectare including spring-autumn 292 thousand hectare and average yield is 8,1 quintals/ha, winter – 119 thousand hectare and yield is 3,6 quintals/ha dry mass; hayfield is 86 thousand ha, yield 15-17 q/ha. And the rest of pasture is used as summer pasture.
- Prepared forage in irrigated lands and natural hayfield can be provided 50-80% of total required fodder at Alymseyit and Kenesh farm. During summer period the sheep flocks are grazed on natural rangelands on high mountain areas.

Climatic conditions

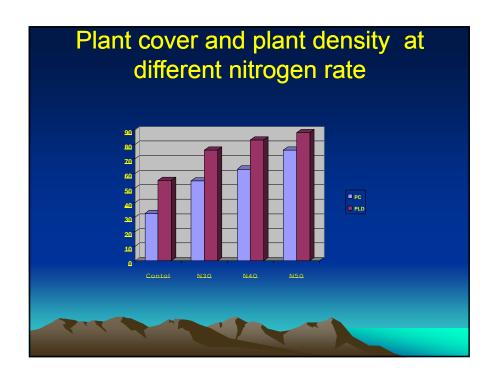
- Climate of Kyrgyz Republic is sharply continental. The climate can be changed not only by decades base but within round clock especially in the mountain areas.
- Air temperature is substantially increasing and at the same time rainfall is decreasing during last years. For example, according to data of Tokmok meteo station which is located 30 km from experimental site where we provided the experiments for the last three years.



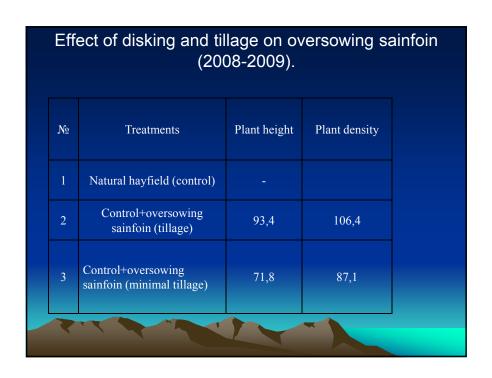
Results

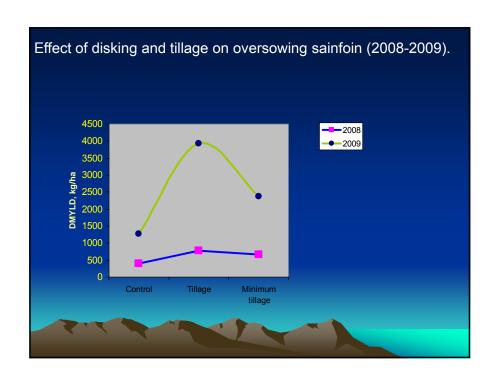
Plant vegetation and height are the main factor influencing on hayfield plant cover and productivity development. Rainfall and nitrogen application were positively affect to the plant height and the plant height was 50-85 cm. And, in control variant bluegrass plant height was 40.4 cm, Kentucky bluegrass – 50.3, wheat grass 51.2 cm, шалфей лекарственный – 49,7 cm, sainfoin – 70,1 cm, and nitrogen application at 50 kg/ha their height was reached to 32 до 85 cm.

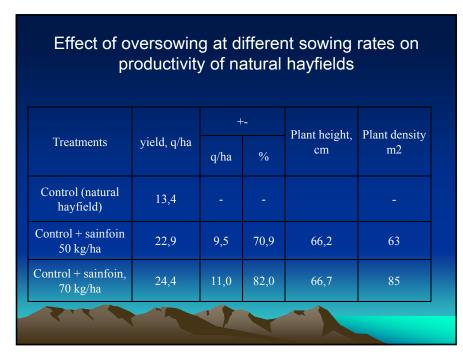
cm								
№	Plant name	Treatments						
		Control	N30	N40	N50			
1	Мятлик живородящий	40,4	45,6	73	82			
2	Эспарцет	70,1	70,0	70,5	85			
3	Мятлик луговой	50,3	57	-	69			
4	Шалфей лекарственный	49,7	53	-	55			
5	Вьюнок обыкновенный	51,6	56	-	63			
6	Пырей бескорневищный	51,2	61,2	73	85			
7	Душица обыкновенная	31,1	30,7	26,8	32			
8_	Осока Туркестанская		41,2	50,3	56			
9	Райграс пастбищный	-	40,3	49,2	54			



	Effect of different norms of nitrogen application on productivity of hayfields							
№	Treatments	Yield, q/ha	addition					
			q/ha	%				
1	Natural hayfield (control)	12,8	-	-				
2	Control + N 30 kg/ha	18,1	5,3	41,4				
3	Control + N 40 kg/ha	23,7	10,9	85,1				
4	Control + N 50 kg/ha	25,5	12,7	99,2				







Conclusions and recommendations.

- On the basis of above mentioned results following conclusions can be made:
- Natural hayfield can be used starting from April through end of May and also after September month.

Conclusions and recommendations

- Yield productivity of natural hayfields depending on climatic conditions especially rainfall. When rainfall is less at the same productivity of hayfield will be also less.
- Hayfield productivity will be increased with sowing and oversowing.
- Application of nitrogen at rate 50 kg will increase hayfield productivity by almost two times.





