

### Activity 6: Early lambing for targeting lamb sale during Navruz (March) involving a genotype comparison in household flocks

*Responsible scientist: Dr. Marat Tuekbasov*

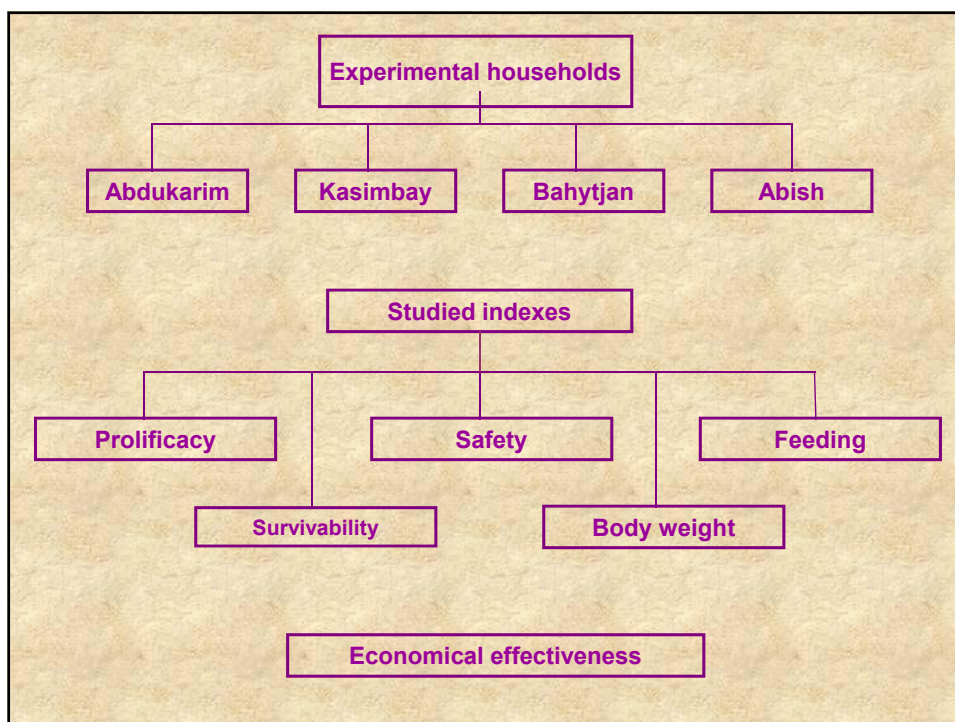
*Other scientists: Aydar Kashkarov, Z. Tuganbaeva South-Western Research Institute of  
Plant breeding and Livestock*

*T. Bigara (teacher at Southern Kazakhstan State University), I. Mambetov from South-  
Kazakhstan State University*

*PhD student – Rosa Shimelkova*

*ICARDA specialist – Kh. Khamdamov*

The main objective is to test impact of early lambing on  
performance of ewes and lambs and on farm economics



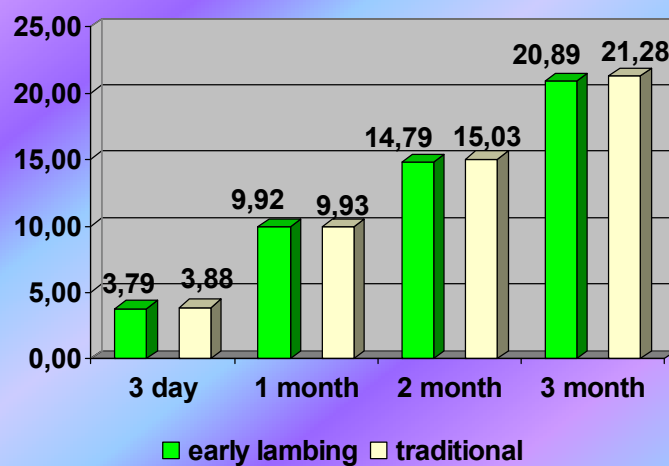
### Ewes prolificacy and safety of lambs in the farm Kasimbay

Indexes	Early lambing		Traditional lambing	
	karakul	Fat-tailed	karakul	Fat-tailed
Ewes inseminated	21	25	20	25
Ewes lambed	20	25	20	25
Conception rate, %	95.2	100.0	100.0	100.0
Lambs obtained	22	29	21	28
Prolificacy of ewes, %	110,0	116,0	105,0	112,0
Lambs died, (%)	-	1 (3.4)	1 (4.7)	-
Lambs remained (%)	22 (100)	28 (96.6)	20 (95.3)	28 (100.0)

### Ewes prolificacy and safety of lambs in the households Abdukarim, Abish, Bahytjan

Indexes	Abdakarim		Abish		Bahytjan	
	Early	T	Early	T	Early	T
Ewes inseminated	15	20	14	15	15	17
Ewes lambed	15	20	14	15	15	17
Conception rate, %	17	23	16	16	16	18
Lambs obtained	133.3	115.0	114.2	106.7	106.7	105.9
Prolificacy of ewes, %	-	1 (4.3)	-	-	1 (6.2)	1 (5.5)
Lambs died, (%)	17 (100.0)	22 (95.7)	16 (100.0)	16 (100.0)	15 (93.8)	17 (94.5)

### Body weight of karakul lambs



### Dynamics of body weight of fat-tailed lambs

Age of lambs	Abdukarim		Kasimbay		Abish		Bahitjan	
	Early	T	Early	T	Early	T	Early	T
3 days	5.13	5.16	4.76	4.85	4.85	5.04	4.48	4.82
1 month	13.9	14.89	13.17	13.96	13.92	14.39	13.14	14.04
2 month	23.47	23.9	23.12	23.93	23.29	23.7	22.49	23.2
3 month	36.07	36.75	35.95	36.07	35.37	36.54	32.09	35.03

**Technology of ewes feeding in the households  
Kasimbay, Abdukarim and Abish**

Name of forage	Period of feeding	Daily ration, kg	Number of days	Price of forage, tenge	Expenses for 1 animal, tenge
<b>Early lambing</b>					
Hay	December, January, February	2.0	90	7	1260
Concentrated	December, January, February	0.5	90	22	990
<b>Total</b>					<b>2250</b>
<b>Traditional lambing</b>					
Hay	December, January, February, March	2.0	120	7	1680
Concentrated	December, January, February, March	0.5	120	22	1320
<b>Total</b>					<b>3000</b>

**Technology of ewes feeding in the households Bahytjan**

Name of forage	Period of feeding	Daily ration, kg	Number of days	Price of forage, tenge	Expenses for 1 animal, tenge
<b>Early lambing</b>					
Hay	December, January, February	1.5	90	7	945
Concentrated	December, January, February	0.3	90	22	594
<b>Total</b>					<b>1539</b>
<b>Traditional lambing</b>					
Hay	December, January, February, March	2.0	120	7	1680
Concentrated	December, January, February, March	0.5	120	22	1320
<b>Total</b>					<b>3000</b>

## Economical effectiveness of researches, 2009

Indexes	Abdukarim		Kasimbay		Abish		Bahitjan	
	Early	T	Early	T	Early	T	Early	T
Price of lambs at Navruz, tenge	8220	-	8125	-	8000	-	5548	-
Price of traditional lambs, tenge	-	8450	-	8400	-	8562	-	8200
Feed expenses, tenge	2250	3000	2250	3000	2250	3000	1539	3000
Profit, tenge	5970	5450	5875	5400	5750	5562	4009	5200
Differences, tenge	+520		+475		+188		-1191	

## Marketing of karakul lambs 2009.

Age of lambs	Early lambing		Traditional lambing	
	Sold	Selling price, tenge	Sold	Selling price, tenge
SGC				
3 month	45	3850	34	4100
4 month	26	4300	30	4380
5 month	31	4800	26	3900
6 month	15	5400	32	4250
7 month	26	6060	35	4700
8 month	18	6700	33	5400
Kasimbay				
3 month	22	3700	20	3890
4 month	11	4200	12	4275
5 month	14	4550	9	4140
6 month	10	5800	8	4375
7 month	6	6100	12	4875
8 month	7	6870	9	5570

## Marketing of fat-tailed lambs

Age of lambs	Early lambing		Traditional lambing	
	Sold	Selling price, tenge	Sold	Selling price, tenge
Abdukarim				
3 month	March	8220	June	8450
4 month	April	8600	July	8680
5 month	May	9500	August	8200
6 month	June	10300	September	9200
7 month	July	11200	October	10400
8 month	August	11800	November	10900
Kasimbay				
3 month	March	8125	June	8400
4 month	April	8550	July	8600
5 month	May	9400	August	8200
6 month	June	10100	September	9100
7 month	July	11000	October	10200
8 month	August	11600	November	11000