

**DIVISION OF SUBSISTENCE**



**RC: 56**

***Department of Fish and Game***

**ANS Options for Wolves  
Proposals 102, 66, 65, 19, 20**

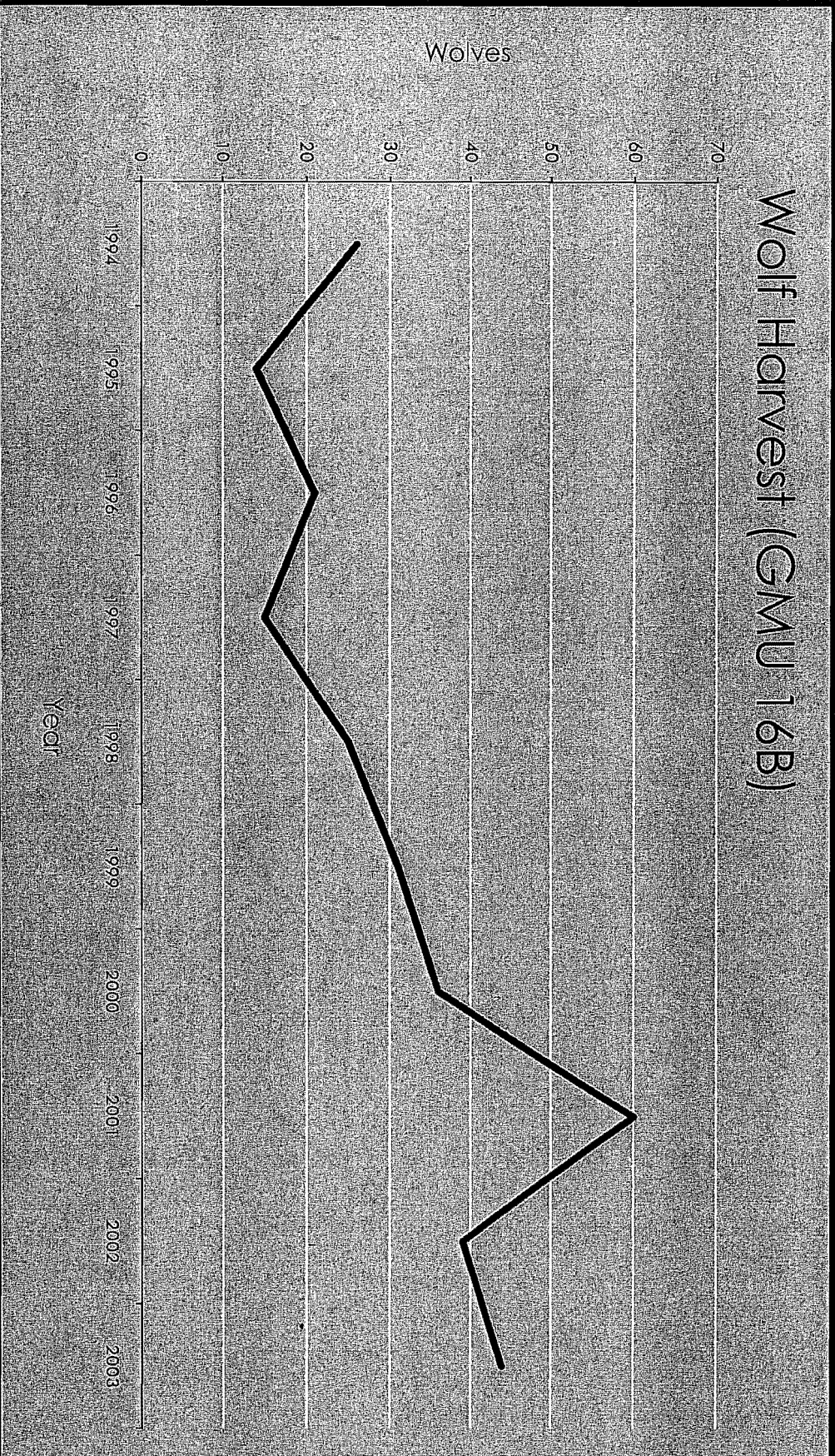
**Proposal 102**

**Wolf / Unit 16B**

**Define amount of wolves  
reasonably necessary for subsistence.**

# Proposal 102

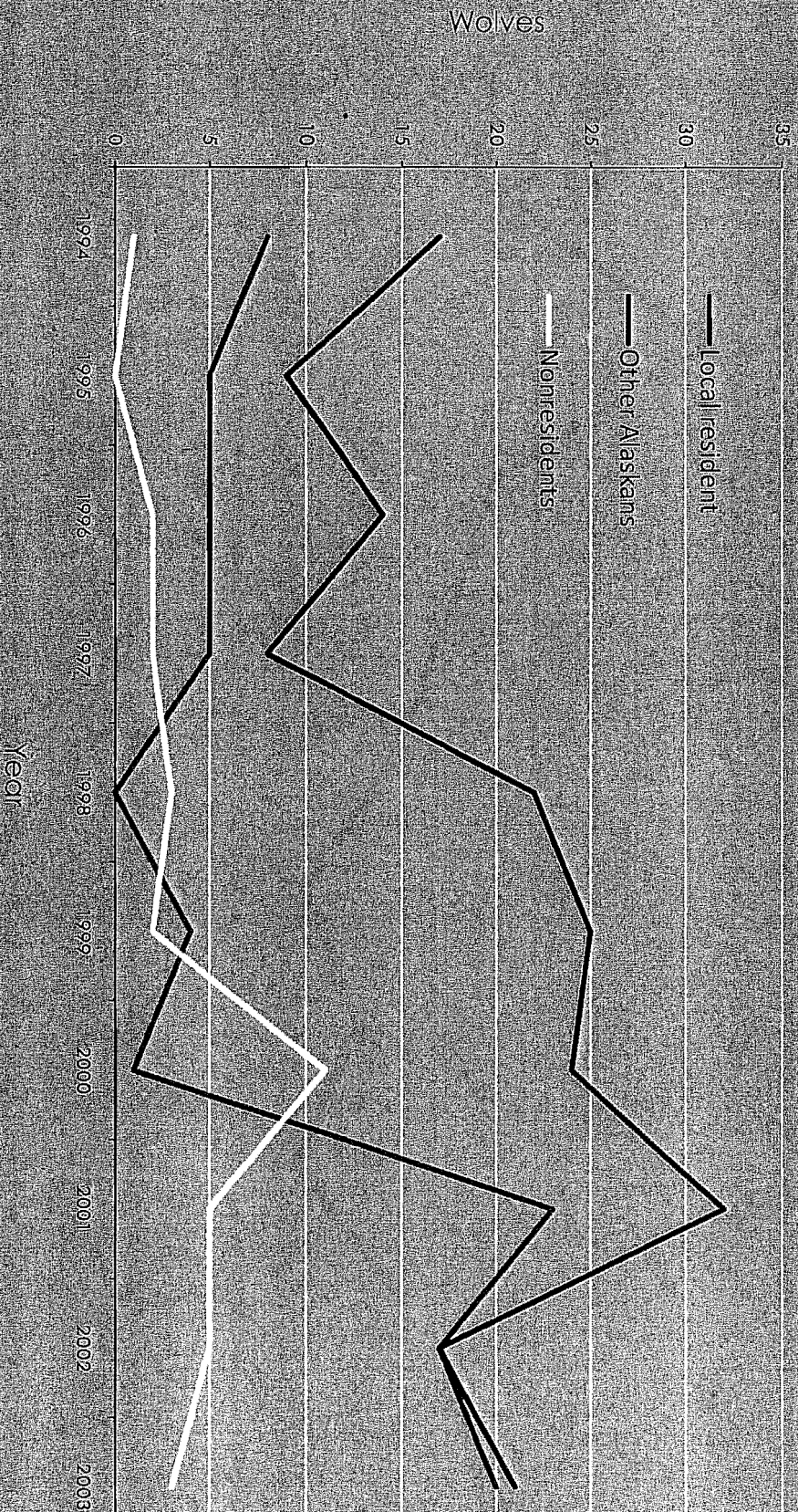
# Wolf / Unit 16B



# Proposal 102

# Wolf / Unit 16B

## Wolf Harvest (GMU 16B)





# Proposal 102

# Wolf / Unit 16B

## ANS options for wolves in Unit 16B

Option 1: Low and High Harvest, 1994-2003

Local community residents only			
ANS Range		Recommendation	
Harvest	Equals	Low (rounded)	High
Low		0	25
High		23	

Option 2: Low and High Harvest, 1994-2003

All Alaska Residents			
ANS Range		Recommendation	
Harvest	Equals	Low (rounded)	High
Low		15	55
High		55	

Option 5: Percentage of the total average harvest of wolves by local residents, 1990-2009  
28% of harvestable surplus

Standard Deviation

Mean	SD	Plus
9	8	

Standard Deviation

Mean	SD	Plus
28	13	

Option 3: Using means and standard deviation, 1994-2003

Average harvest plus and minus the standard deviation of the average = ANS recommendation, rounded.			
Local community residents only			
ANS Range		Recommendation	
Mean +/- SD	Equals	Low (rounded)	High
Low		0	15
High		17	

Option 4: Using means and standard deviation, 1994-2003

Average harvest plus and minus the standard deviation of the average = ANS recommendation, rounded.			
All Alaska Residents			
ANS Range		Recommendation	
Mean +/- SD	Equals	Low (rounded)	High
Low		15	40
High		41	

**Proposal 66**

**Wolf / Unit 11**

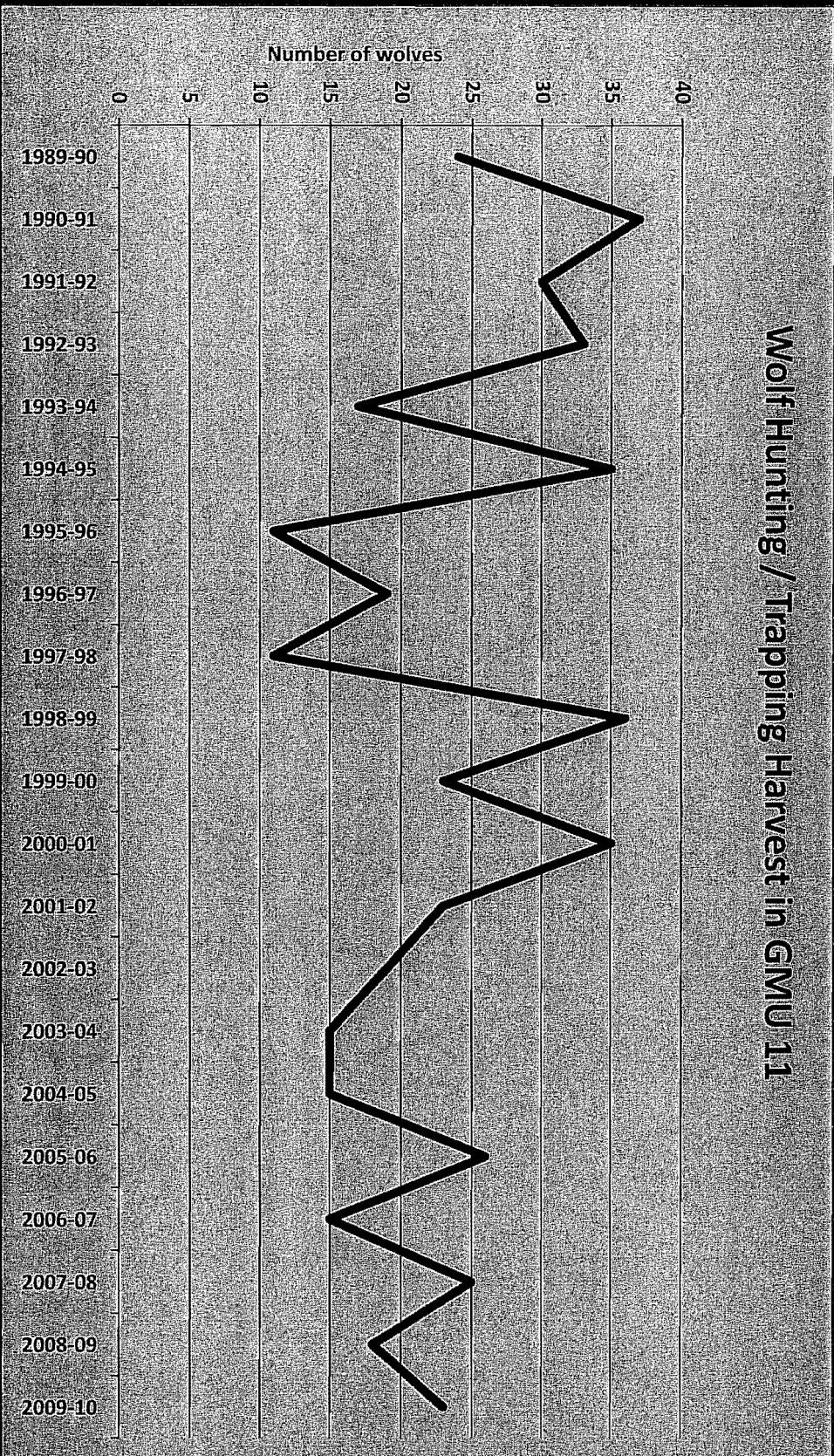
**Define amount of caribou and wolves reasonably necessary for subsistence.**

**Unit 11 Caribou (Mentasta Herd) has no harvestable surplus.**

# Proposal 66

# Wolf / Unit 11

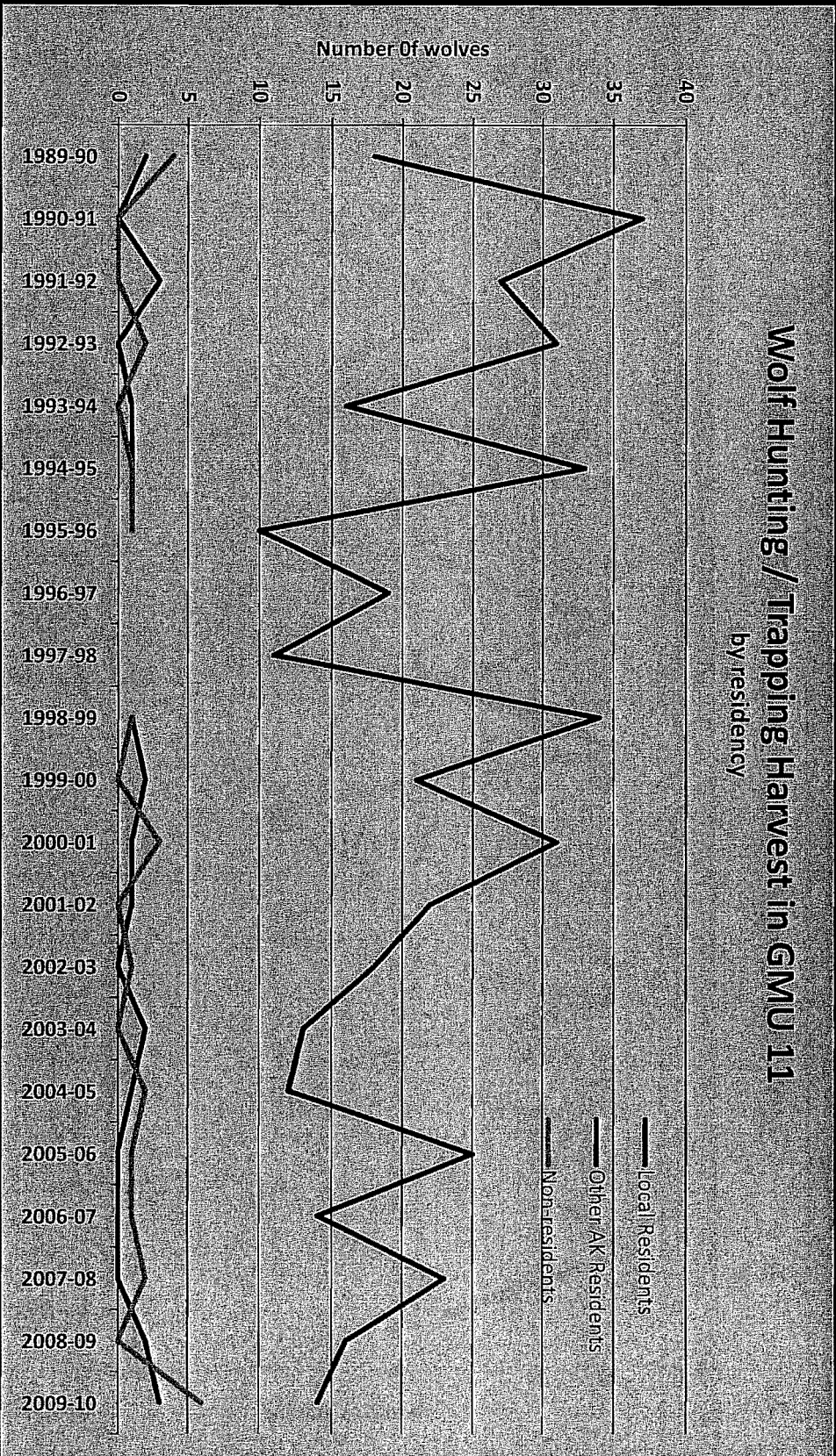
Wolf Hunting / Trapping Harvest in GMU 11





# Proposal 66

# Wolf / Unit 11





# Proposal 66

# Wolf / Unit 11

## ANS options for wolves in Unit 11

Option 1. Low and High Harvest, 1990-2010

Local community residents only		ANS Range Recommendation	
Harvest	Equals	(rounded)	
Low	High	Low	High
11	37	10	35

Option 2. Low and High Harvest, 1990-2010

All Alaska Residents		ANS Range Recommendation	
Harvest	Equals	(rounded)	
Low	High	Low	High
13	37	15	35

Option 5. Percentage of the total average harvest of wolves by local residents, 1990-2009

91% of harvestable surplus

Standard Deviation

Mean	SD	Plus
21	8	

Standard Deviation

Mean	SD	Plus
22	8	

Option 3. Using means and standard deviation, 1990-2010  
Average harvest plus and minus the standard deviation of the average = ANS recommendation, rounded.  
Local community residents only

Mean +/- SD		ANS Range Recommendation	
Low	High	(rounded)	
13	29	15	30

Option 4. Using means and standard deviation, 1990-2010  
Average harvest plus and minus the standard deviation of the average = ANS recommendation, rounded.  
All Alaska Residents

Mean +/- SD		ANS Range Recommendation	
Low	High	(rounded)	
14	30	15	30

**Proposal 65**

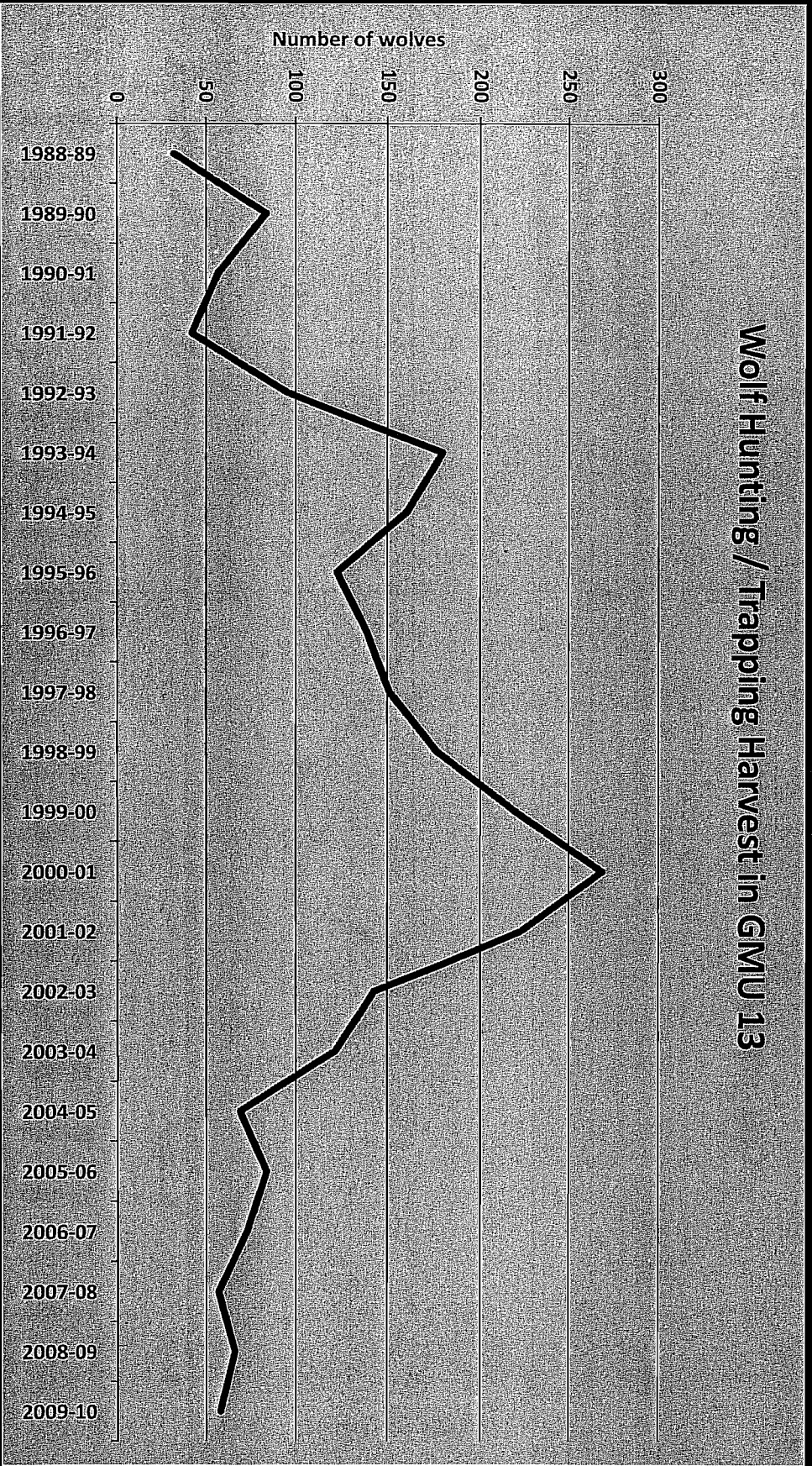
**Wolf / Unit 13**

**Define amount of wolves**

**reasonably necessary for subsistence.**

# Proposal 65

# Wolf / Unit 13

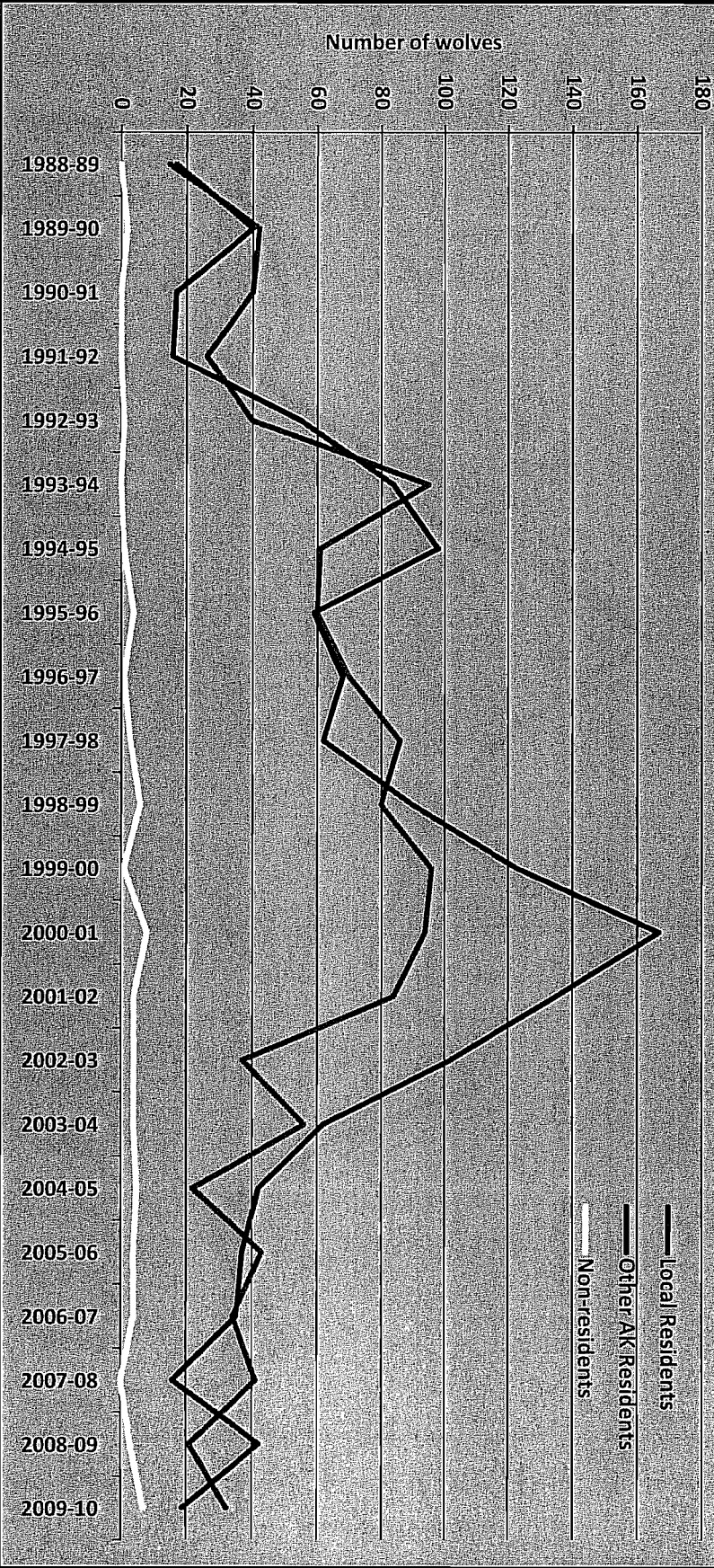




# Proposal 65

# Wolf / Unit 13

Wolf Hunting / Trapping Harvest in GMU 13  
by residency



# Proposal 65

# Wolf / Unit 13

## ANS options for wolves in Unit 13

### Option 1: Low and High Harvest, 1989-2010

Local community residents only

Harvest		Equals		ANS Range Recommendation	
Low	High	Low	High	Low	High
15	95	15	95	15	95

Standard Deviation

Mean	SD
48	23

Plus

Mean +/- SD	Low	High
25	71	

Equals

Low	High
25	70

ANS Range Recommendation (Rounded)

### Option 2: Low and High Harvest, 1989-2010

All Alaska Residents

Harvest		Equals		ANS Range Recommendation	
Low	High	Low	High	Low	High
32	179	30	180	30	180

Standard Deviation

Mean	SD
96	47

Plus

Mean +/- SD	Low	High
49	142	

Equals

Low	High
50	140

ANS Range Recommendation (Rounded)

Option 5: Percentage of the total average harvest of wolves by local residents, 1990-2009

49% of harvestable surplus

Option 3: Using means and standard deviation, 1989-2010  
Average harvest plus and minus the standard deviation of the average = ANS recommendation, rounded.  
Local community residents only

Local community residents only

Option 4: Using means and standard deviation, 1989-2010  
Average harvest plus and minus the standard deviation of the average = ANS recommendation, rounded.  
All Alaska Residents

All Alaska Residents

# Proposal 19

# Wolf / Unit 9

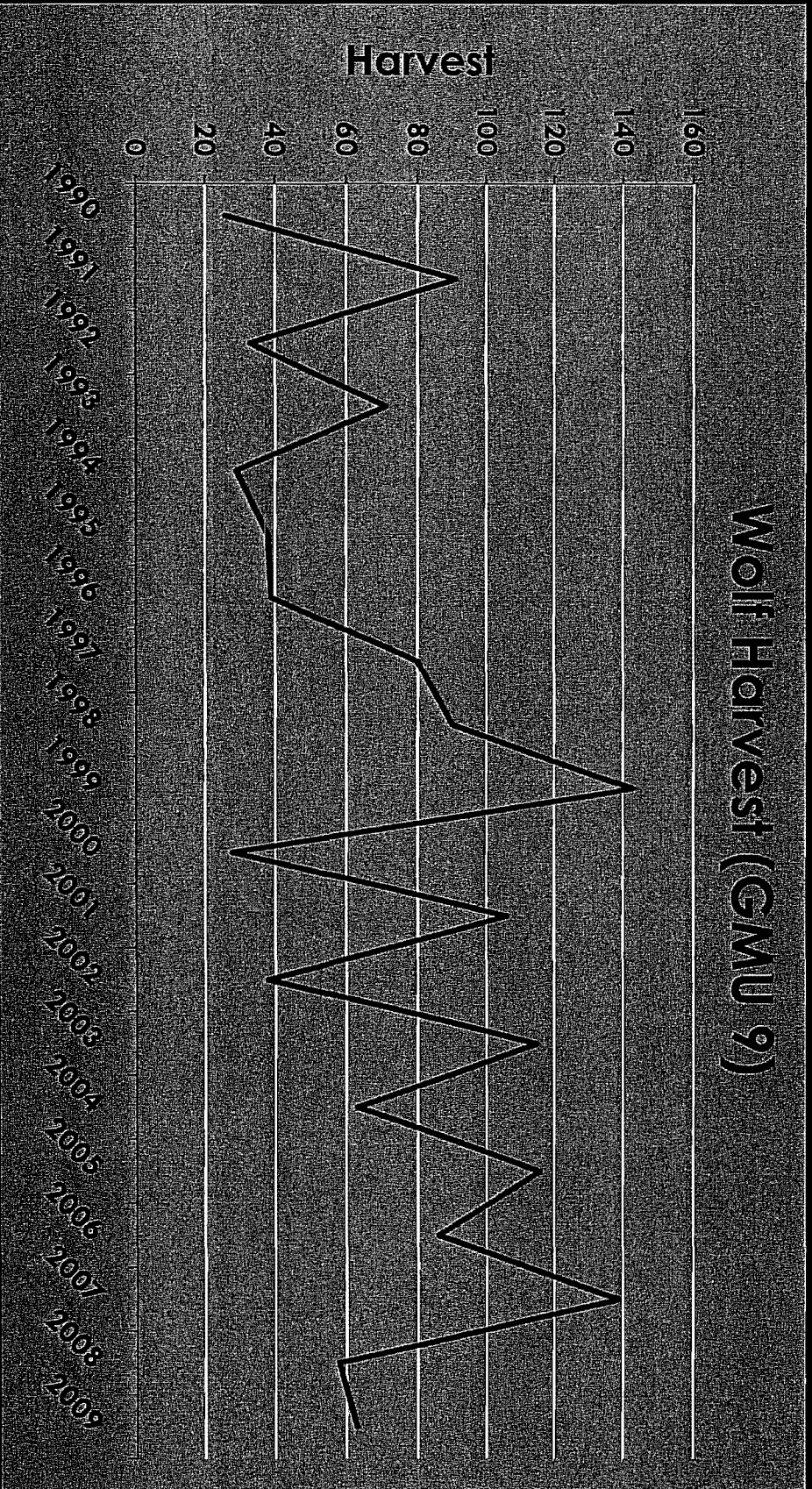
**Define amount of wolves  
reasonably necessary for subsistence.**

Lake Iliamna AC      Oppose (0-8)  
Lower Bristol Bay AC      Oppose (0-6)  
Naknek/Kvichak AC      Oppose (0-7)



# Proposal 19

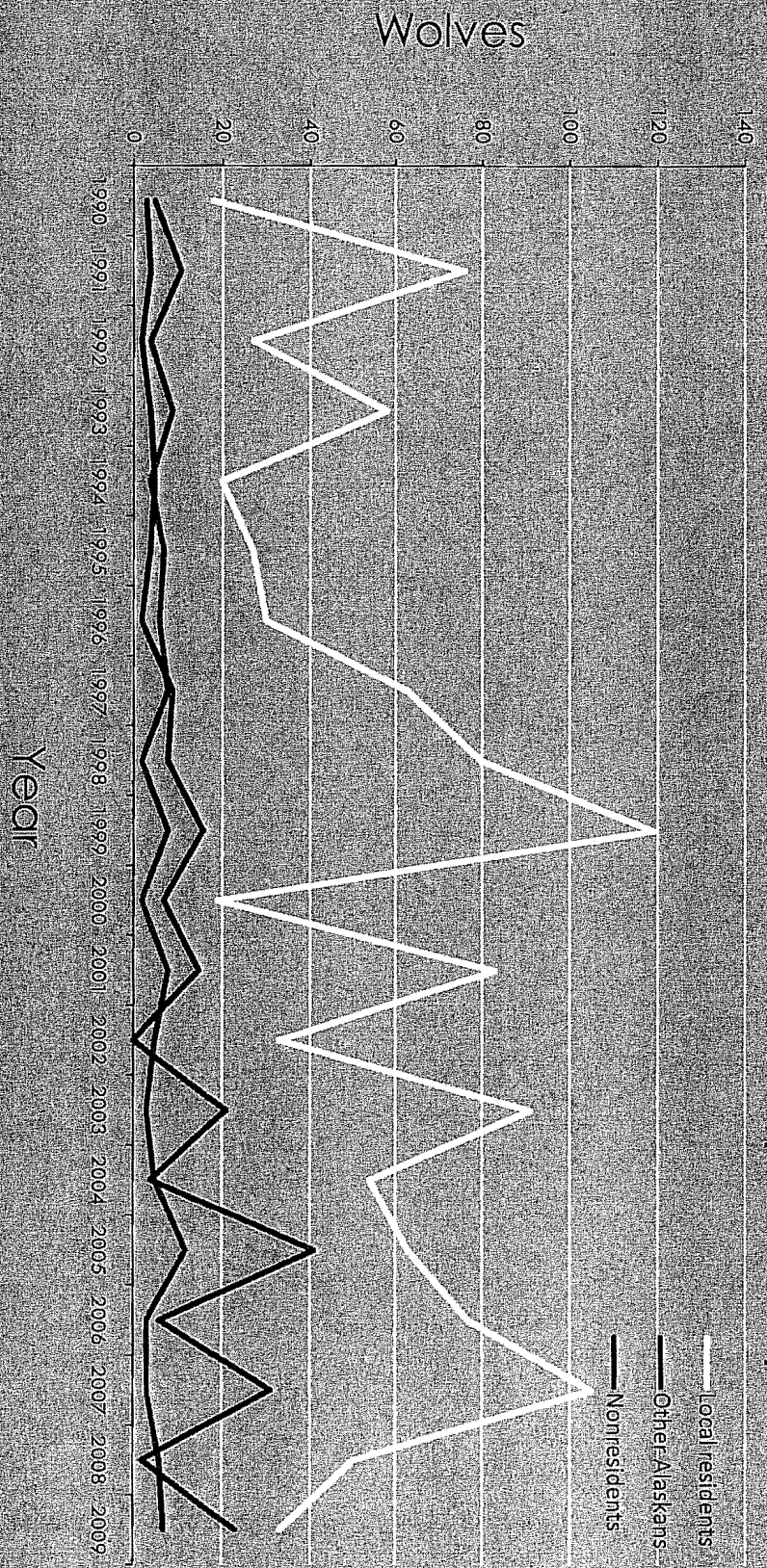
# Wolf / Unit 9



# Proposal 19

# Wolf / Unit 9

Wolf Harvest by Residence (GMU 9)



Lake Iliamna AC      Oppose (0-8)  
 Lower Bristol Bay AC      Oppose (0-6)  
 Naknek/Kvichak AC      Oppose (0-7)



# Proposal 19

# Wolf / Unit 9

## ANS options for wolves in GMU 9

Option 1. Low and High Harvest, 1990-2009

Local community residents only

Harvest		Equals		ANS Range Recommendation	
Low	High	Low	High	(rounded)	
18	119	20	120		

Standard Deviation

Mean		SD		Plus	
56	30				

Option 3. Using means and standard deviation, 1990-2009  
Average harvest plus and minus the standard deviation of the average = ANS recommendation, rounded.

Local community residents only

Mean +/- SD		Equals		ANS Range Recommendation	
Low	High	Low	High	(rounded)	
26	87	25	85		

Option 2. Low and High Harvest, 1990-2009

All Alaska Residents

Harvest		Equals		ANS Range Recommendation	
Low	High	Low	High	(rounded)	
21	127	20	130		

Standard Deviation

Mean		SD		Plus	
62	31				

Option 4. Using means and standard deviation, 1990-2009  
Average harvest plus and minus the standard deviation of the average = ANS recommendation, rounded.

All Alaska Residents

Mean +/- SD		Equals		ANS Range Recommendation	
Low	High	Low	High	(rounded)	
31	93	30	90		

Option 5. Percentage of the total average harvest of wolves by local residents, 1990-2009

83% of harvestable surplus

Lake Iliamna AC Oppose (0-8)  
Lower Bristol Bay AC Oppose (0-6)  
Nadknek /Kvichak AC Oppose (0-7)



# Proposal 20

# Wolf / Unit 10

**Define amount of wolves  
reasonably necessary for subsistence.**

Lower Bristol Bay AC      Oppose (0-6)  
Naknek/Kvichak AC      Oppose (0-7)

# Proposal 20

# Wolf / Unit 10

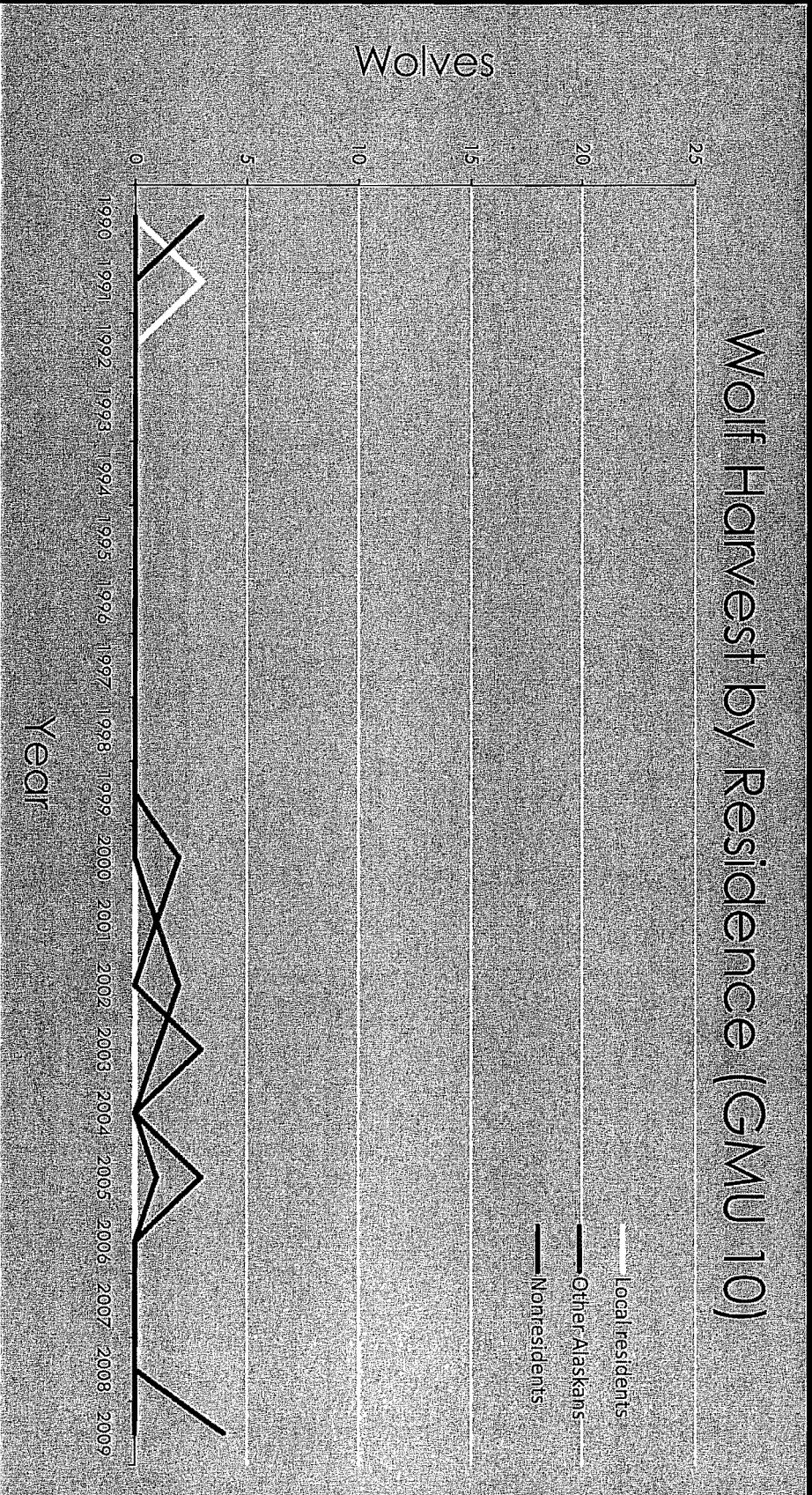
## Wolf Harvest (GMU 10)



Lower Bristol Bay AC Oppose (0-6)  
Naknek/Kvichak AC Oppose (0-7)

# Proposal 20

# Wolf / Unit 10



Lower Bristol Bay AC      Oppose (0-6)  
Naknek/Kvichak AC      Oppose (0-7)



# Proposal 20

# Wolf / Unit 10

## ANS options for wolves in GMU 10

Option	Local community residents only	ANS Range Recommendation (rounded)	Standard Deviation	Plus	Local community residents only	ANS Range Recommendation (rounded)	
Option 1. Low and High Harvest, 1990-2009	<p>Harvest</p> <table border="1"> <tr> <td>Low</td> <td>High</td> </tr> <tr> <td>0</td> <td>3</td> </tr> </table>	Low	High	0	3	<p>Low</p>	High
Low	High						
0	3						
0	3						
SD							
0							
Low	High						
-1	1						
0	1						
Option 2. Low and High Harvest, 1990-2009	<p>Harvest</p> <table border="1"> <tr> <td>Low</td> <td>High</td> </tr> <tr> <td>0</td> <td>3</td> </tr> </table>	Low	High	0	3	<p>Low</p>	High
Low	High						
0	3						
0	3						
SD							
1							
Low	High						
1	2						
0	2						
Option 3. Using means and standard deviation, 1990-2009	<p>Average harvest plus and minus the standard deviation of the average = ANS recommendation, rounded.</p> <p>Local community residents only</p>	<p>ANS Range Recommendation (rounded)</p> <p>Low</p>	High				
0	1						
Low	High						
-1	1						
0	1						
Option 4. Using means and standard deviation, 1990-2009	<p>Average harvest plus and minus the standard deviation of the average = ANS recommendation, rounded.</p> <p>All Alaska Residents</p>	<p>ANS Range Recommendation (rounded)</p> <p>Low</p>	High				
0	2						
Low	High						
0	2						
0	2						
Option 5. Percentage of the total average harvest of wolves by local residents, 1990-2009	<p>13% of harvestable surplus</p>	<p>ANS Range Recommendation (rounded)</p> <p>Low</p>	High				
0	3						
Mean	SD						
1	1						
Low	High						
1	2						
0	3						

Lower Bristol Bay AC      Oppose (0-6)  
 Naknek/Kvichak AC      Oppose (0-7)