Animal Shelter in West Bank, Assessment Results

ACTION AGAINST HUNGER
FOOD SECURITY AND LIVELIHOOD TEAM
July, 2017
Hebron, West Bank
Objective

- IDENTIFYING THE MAIN UNDERLYING CONSTRAINTS IN THE ANIMAL SHELTER. IN RELATION WITH KEY VARIABLES WHICH AFFECTS THE PROFITABILITY OF HERDING AND PRESERVATION OF NEWBORNS, SELECTION, FARMING PRACTICES, ETC....
Objective

- Assess the current situation of the animal shelter with the target sample:
- Test the relation between “Animal Shelter” and the following variables related to animal husbandry:
  - New-born mortality.
  - Herd Productivity.
  - Animal health.
  - Farming practices, quality of feeding, watering, shaving, treatment, collecting manure, milking and milk.
  - Gender aspects.
A TOTAL OF 62 FAMILIES WERE VISITED AND SURVEYED DURING RAMADAN
Target Location

![Map showing different areas and their percentages.]

- **Area C**: 67.3%
- **Area B**: 26.9%
- **Area A**: 5.8%

Legend:
- 0% - 5%
- 6% - 9%
- 10% - 11%
- 12% - 20%
- 20% - 46%
# Target Location

<table>
<thead>
<tr>
<th>Hebron</th>
<th>Bethlehem</th>
<th>Tubas</th>
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<tbody>
<tr>
<td>ام الخير</td>
<td>كيسان</td>
<td>رأس الاحمر</td>
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<td>زويدين</td>
<td>رشايده</td>
<td>خربة يرزا</td>
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<td>المسافر بني نعيم</td>
<td>تقوع</td>
<td>حمصه القيعيه</td>
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<td>جب الذيب</td>
<td>عين الحلوه ام الجمال</td>
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<td>عناب الكبير</td>
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<td>زنوتا</td>
<td>جنبا</td>
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<tr>
<td>المركز</td>
<td>الحلاوه</td>
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<table>
<thead>
<tr>
<th>East Jerusalem</th>
<th>Tubas</th>
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<tbody>
<tr>
<td>الكسارات</td>
<td>رأس الاحمر</td>
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<td>عناتا</td>
<td>حمصه القيعيه</td>
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<tr>
<th>Ramallah</th>
<th>Jericho</th>
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<tbody>
<tr>
<td>واد القيم</td>
<td>الخان الاحمر</td>
</tr>
<tr>
<td>النبي موسى</td>
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</table>
General Information

Surveyed Families By gender

- Males: 47.00%
- Females: 53.00%

Experience in Herding

- < 20 years in herding: 21.2%
- 20-30 years in herding: 25.0%
- > 30 years in herding: 53.8%

Is Herding your main source of income?

- Yes: 90%
- No: 10%

Surveyed Families By Flock Size

- <100 heads: 40.4%
- 101-250 heads: 36.5%
- > 250 heads: 23.1%
Results

% of Abortion

- <10%: 52%
- 10-20%: 34%
- >20%: 14%

Reason of Abortion: Farmers' Opinion

- Hit by the ram! 7.7%
- I don't know/others 13.5%
- Diseases 38.5%
- Crowding 15.4%
- Cold 25.0%

31-Jul-17
## Results

<table>
<thead>
<tr>
<th>Type of Shelter</th>
<th>Number</th>
<th>Total Area</th>
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<tbody>
<tr>
<td>Tent</td>
<td>45</td>
<td>3714</td>
</tr>
<tr>
<td>Barracks</td>
<td>32</td>
<td>3425</td>
</tr>
<tr>
<td>Concrete</td>
<td>8</td>
<td>1140</td>
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<tr>
<td>Cave</td>
<td>14</td>
<td>1450</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>99</strong></td>
<td><strong>9729</strong></td>
</tr>
</tbody>
</table>

**Major Types of Animal Shelter**

- Tent: 45
- Barracks: 32
- Concrete: 8
- Cave: 14

**Area of Animal Shelters (M²)**

- Tent: 3714
- Barracks: 3425
- Concrete: 1140
- Cave: 1450
Results

Space for 1 head of sheep inside animal shelter is 1.08 M2.
Results

Shelter divisions

- Division according to physiological status: 12%
- Division for lambs: 10%
- Division for pregnant and non-pregnant sheep: 8%
- No division: 70%
Shelters High

Results

- 2 - 2.5 meters: 52%
- 3 - 4 meters: 48%

2 - 2.5 meters
3 - 4 meters
WHAT DO YOU SUGGEST TO MAKE YOUR ANIMAL SHELTER MORE RESILIENT TO WEATHER CONDITIONS?

- Complete replacement: 32.7%
- Partial rehabilitation _Materials: 67.3%
Results

% Mortality Rate

Mortality rate

- Total No. of newborn: 5911
- No. of dead newborn: 1493
- % mortality rate: 25%
Results

**Do you face a problem of new-born mortality?**

- Yes: 16%
- No: 84%

**Timing of new-born mortality**

- 1st day since birth: 5.00%
- 1st week of birth: 60.0%
- 2nd week of birth: 10.0%
- 3rd week of birth: 25.0%

**Ambient temperature is main cause of new-born mortality**

- Strongly agree: 44.2%
- Agree: 32.7%
- Agree somewhat: 17.3%
- Don't agree: 3.8%
- Don't know: 1.9%

February: the highest Mortality Period!
Results

Fertility Rate: 86%

- No. of ewes: 5909
- No. of inseminated ewes: 4999
- No. of giving birth ewes: 6833
- Fertility rate: 86.48%
Results

- Milk Productivity: 79 liters/Head.
- % of milking females within the flock is 53%.
- % of milking females from delivered (give birth) female is 72%.
Results

Got demolition orders: 44.2%
Never received: 15.4%

Risk of Forcible Transfer:
- High risk of forcible transfer: 40.4%
- Medium risk of forcible transfer: 19.2%
- Low risk of forcible transfer: 3.8%
- No Answer: 36.5%
Results

AS: animals are separated according to status

Separate RAMs

AS: affects reproduction

AS: affects disease spread

Dirty drinkers: enhances disease spread

Births: on special place with hygiene

Births: on normal animal shelter ground

Women: complained about animal shelter

AS: causes loss of fodder from troughs

I do AS rehab. Twice a year (winter+summer)
Results_ YES ☺ ☻  NO ☹ ☹

- if offer support, may you participate with 30% cost? 100%
- Orgs. (Neglect) importance of animal shelter support 94%
- All deaths occur during cold, improper AS 92%
- my AS is unsafe in winter and I don’t know what to do! 79%
- we lack skills in building AS in our community 44%
- Material used in AS is usually of low quality 73%
- AS: organizations do not investigate deeply what fits! 69%

Yes  No
Conclusions

- Farmers strongly believe that:
  - Herding is the main source of income for most herding families in Area C.
  - Animal shelter is a GAP in the area of the study and needs to be adequately considered in interventions.
  - Sheep flock suffering from high abortion rate reached an average of 13% due to diseases, cold and crowding.
  - Lambs mortality reached an average of 25% mainly as a result of ambient temperature according to 44.2% of herders answers.
  - Animal shelter affects their newborn and cause significant loss during Feb. each year.
  - Women are the most affected by poor AS, they do most of the herding works!
Conclusions

- Space for 1 head of sheep inside animal shelter 1.08 M2/1 head.
- 70% of herders have animal shelters without any division inside the shelters.
  - 52% of shelters had high between 2 – 2.5 meters.
  - Milk productivity 79 liters/ewe
- Animal Shelter Interventions should be associated with proper extention, farm separation and newborn incubators are mainly a practice rather than lack of material.
- Organizations neglect AS interventions and do not carefully analyze its cost benefit ratios.
Recommendations

- **We need to support farmers through:**

  - Prioritizing AS interventions in Area C. 44% of the survey families were under strong risk of forcible transfer.

  - Provide technical solutions for cold and disease prevention amongst herding communities in Area C.

  - Always consider the protection concerns of people when designing an intervention in AS.

  - Without efficient extension, AS interventions will not work well!

  - Women are the most affected by poor AS, they do most of the herding works, interventions have to consider the views and concerns of Women.

  - In most of the cases, AS rehabilitation was more relevant that installing new Ass.