Requirements on reliable solutions for livestock identification systems

FAO / ICAR - African Symposium on AIR systems

Pretoria, 2015-04-16
TAGGING WITH HIGH QUALITY EARTAGS - WHY?

👍 Base for efficient herd management, breeding, recording

👍 Easy and reliable identification of individuals

👍 Optimum welfare compatibility, low risk for animal’s well-being

👍 High retention ➔ production of less replacement eartags and reduced expenditure of time for application of those

Everybody in the chain must accept and support the system!
### COMPARISON OF COSTS

<table>
<thead>
<tr>
<th></th>
<th>CAISLEY product (loss rate 2%)</th>
<th>competitive product (loss rate 6%)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>quantity</td>
<td>USD</td>
</tr>
<tr>
<td><strong>Eartags</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>purchasing of projected ear tags</td>
<td>500.000</td>
<td>0,35</td>
</tr>
<tr>
<td>purchasing of replacement ear tags</td>
<td>10.000</td>
<td>0,35</td>
</tr>
<tr>
<td><strong>Production and Distribution</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>parcels for projected ear tags</td>
<td>5.000</td>
<td>6,50</td>
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<tr>
<td>parcels for replacement ear tags</td>
<td>5.000</td>
<td>2,50</td>
</tr>
<tr>
<td>working costs for projected ear tags (hours)</td>
<td>417</td>
<td>14,38</td>
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<tr>
<td>working costs for replacement ear tags (hours)</td>
<td>1.667</td>
<td>14,38</td>
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<tr>
<td><strong>Farmer’s work</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>replacement of ear tags (hours)</td>
<td>1.667</td>
<td>10,21</td>
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<tr>
<td><strong>Other costs</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>10.000</td>
<td></td>
</tr>
<tr>
<td><strong>total</strong></td>
<td>280.485</td>
<td></td>
</tr>
</tbody>
</table>
EARTAGS HAVE TO HAVE **HIGH RETENTION**

relevant characteristics:

- construction / design
- application results
- wound healing
- material composition and printing quality
Application - **PUNCHING A CLEAN HOLE**
EARTAGS HAVE TO BE **APPLIED SAFELY AND ACCURATE**

LOCKING MECHANISM OF **FLEXOPLUS** EARTAGS
EARTAGS HAVE TO BE **APPLIED SAFELY AND ACCURATE**

- parallel closing mechanism
- one fits all – visual, EID, tissue sampling tags
EARTAGS HAVE TO BE **EASY TO READ**

- numeric characters differentiate clearly from similar ones
- darkest laser marking
EARTAGS HAVE TO BE EASY TO READ

12345 67890

12345 67890
EARTAGS HAVE TO BE  EASY TO READ

12345  12345
67890  67890
EARTAGS HAVE TO BE **EASY TO HANDLE ON FARM SITE**

- units of all components for identification of one animal
- no additional packaging
  - avoids mix-up
  - safes time during application
EARTAGS MUST GUARANTEE

✓ adapted shape

BEST RETENTION

✓ full flexibility during the lifetime
EARTAGS HAVE TO ALLOW FAST WOUND HEALING

✓ convex backside to reduce irritation
✓ ventilated RFID button
COMPATIBLE EID TAGS
EARTAGS CAN CREATE MORE VALUE

✓ tamper proof tissue sampling

FlexoPlus GENO
TISSUE SAMPLING EARTAG FLEXOPLUS GENO

✓ standardised sampling during the application of eartag
✓ secured sample integrity by hermetical capsuling

➢ fully integrable in automated laboratory processing
➢ high throughput DNA extraction with standard methods
➢ long-term storage and easy sample inventory management
USE OF FLEXOPLUS GENO

PARENTAGE / GENOMICS

TRACEABILITY

ID tag is artificial ID.

DNA(SNPs) is natural ID.

PROOF OF OWNERSHIP

WWW.CAISLEY.DE
THANK YOU!

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