PPR outbreaks in Wild Small Ruminants, Iran

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Introduction

- 30 national parks – in 24 national parks live high density of wild ruminants.

- 152 protected areas – in most of these areas wild herbivores live

- 46 wildlife refuge zones
Approximate population of wild small ruminants of Iran is 200000

Included:

- Wild goats (*Capra aegagrus*)
- Wild sheep (*Ovis orientalis*)
- Goitered gazelle (*Gazella subgutturosa*)
- Chinkara (*Gazella bennettii*)
Annual Census 2020

- Wild sheep: 100,110
- Wild goat: 73,200
- Gazella sub: 29,732
- Gazella ben: 3,093
PPRV

- In 1995, a PPR outbreak was diagnosed in Ilam province in Iran near the border with Iraq both serologically and virologically.

- In 2001, first report PPR outbreak was diagnosed in Kavir national park in border of Tehran province and Semnan province (center of Iran).
History of PPRV outbreaks in wildlife of Iran

- In 2001, at least 1,500 wild goats and Goitered gazelles with clinical signs similar to those caused by PPRV infection died in Kavir National Park and an estimated 25%–40% of the wild goat population in the park died.
Second report of wildlife

- In 2011, PPRV was the suspected cause of 550–700 deaths among wild sheep in Sarigol National Park.
2014-2016 PPR cases

- Sep–Nov 2014
  - Bamou National Park
  - 400 wild goats & sheep

- Apr/May 2015
  - Haftad-qolleh Arak
  - 458 wild goats & sheep

- Aug/Sep 2015
  - Kharmaneh sar tarom
  - 126 wild goats
2014-2016 PPR cases

Sep–Nov 2015
Alamout Protected Area
30 wild goats

Nov/Dec 2015
Taleghan Protected Area
204 wild goats

May/Apr 2016
Khojir National Park
85 wild goats
Peste des Petits Ruminants Virus in Vulnerable Wild Small Ruminants, Iran, 2014–2016

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<table>
<thead>
<tr>
<th>Date</th>
<th>province</th>
<th>Number</th>
<th>Animals</th>
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</thead>
<tbody>
<tr>
<td>Sep-2017</td>
<td>Semnan</td>
<td>80</td>
<td>wild sheep - wild Goat</td>
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<td>Nov-2017</td>
<td>North-khorasan</td>
<td>40</td>
<td>wild sheep</td>
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<td>Jun-2018</td>
<td>Kerman</td>
<td>56</td>
<td>wild sheep - wild Goat</td>
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<tr>
<td>Aug-2019</td>
<td>Fars</td>
<td>123</td>
<td>wild sheep - wild Goat</td>
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<tr>
<td>Sep-2019</td>
<td>Khorasan razavi</td>
<td>200</td>
<td>Wild sheep</td>
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<tr>
<td>Oct-2020</td>
<td>Esfahan</td>
<td>531</td>
<td>wild Goat</td>
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<tr>
<td>Dec-2020</td>
<td>Fars</td>
<td>55</td>
<td>Wild goat</td>
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Suggestions – local & national levels

- To increase wildlife outbreak reporting system
- To increase the capacity of wildlife disease outbreak investigation
- To increase the capacity for wildlife monitoring
- To increase local society awareness on wildlife
- To increase local interest on endangered species
- Emergency plans for safety of wild population during domestic animals outbreaks
- Extended vaccination of domestic sheep and goats
Thanks for your attention