



Assessment of the transitional national action plan for the European mink

January 1st, 2015 - December 31st, 2018

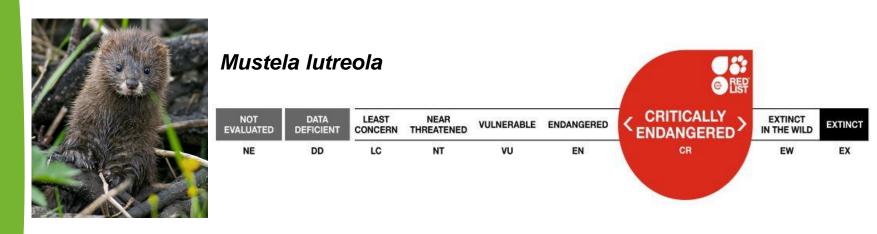




Aurore PERRAULT (DREAL)
Maylis FAYET (ONCFS)
Yoann BRESSAN (ONCFS)

Status of the species

Since 2012, classified as « critically endangered » in Europe (IUCN)



 Since november 2017, classified as « critically endangered » on the French red list (IUCN France, MNHN, SFEPM, ONCFS)

Nom	Catégorie	Critère
France		
Liste rouge des mammifères continentaux de France métropolitaine (2017) (listé Mustela lutreola)	CR	A4c C2a(i)



History

National Action Plan (PNA) 1 (1999-2003)

- Animation by GREGE
- Main actions:
 - Prospecting campaigns by trapping
 - Identification and limitation of threat factors
 - Integration of European mink into the Natura 2000 politics
- Assessment



History

PNA 2 (2007-2011)

- Animation by ONCFS
- Main actions:
 - Populations reinforcement
 - Collision risk treatment
 - Control of accidental mortality by trapping
 - Fight against American mink
- Assessment





History

Transitional PNA (PNAi) (2015-2018)

- Why a PNAi? Priority to actions
- Actions classified into 4 main Objectives:
 - European mink monitoring
 - Fight against the factors of threat in nature
 - Conservation and breeding strategy of European mink
 - Transversal actions (financing, animation, communication, etc.)



The PNAi team

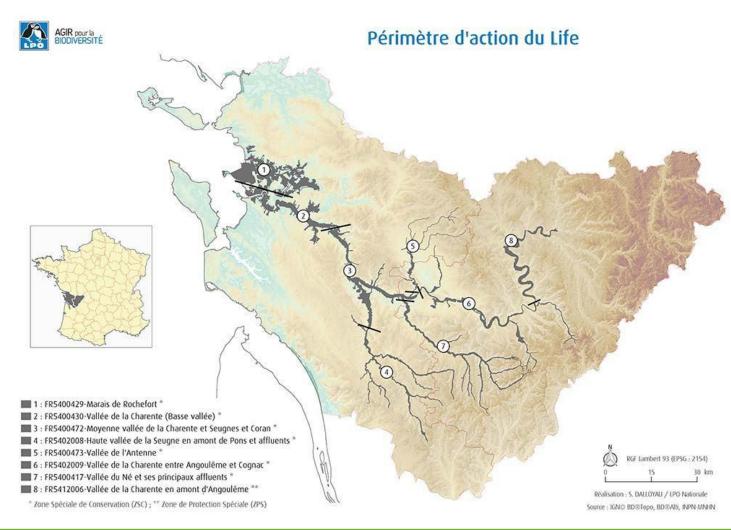
Structure	Contact	Function	Mail
DREAL Nouvelle- Aquitaine	Aurore PERRAULT	National coordination	aurore.perrault@developpement- durable.gouv.fr
	Christelle BELLANGER	Scientific and	christelle.bellanger@oncfs.gouv.fr
ONCFS	Yoann BRESSAN	technical leading	yoann.bressan@oncfs.gouv.fr
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Cistude Nature	Jean-Baptiste PONS	Network leading	jean-baptiste.pons@cistude.org
	Nolwenn PONS	Technical support for the Natura 2000 facilitators	nolwenn.pons@cistude.org



LIFE Vison



- Managed by the LPO, 2017-2022
- Area of actions: Natura 2000 sites of the Charente's watershed





PRÉFET DE LA RÉGION NOUVELLE-AQUITAINE

LIFE Vison



- Goals:
 - Reduce the causes of European mink mortality
 - Restore, develop and secure habitats of European mink
 - Improve knowledges on reproduction and the remaining populations
 - Integrate European mink conservation into the public policies and make local actors aware of the species

Which links with the PNA?



To learn more about LIFE: https://lifevison.fr/

Planning of the 3rd PNA

2019

April, 2nd

Steering committee: PNAi assessment + launch PNA 3 writing 3

May 28-29th

Thematic working groups

June 12th

Scientific council

July 11th

CNPN: Presentation of the PNAi assessment

Exchanges and dialogue

October

Steering committee: presentation of PNA 3

2020



NOUVELLE-AQUITAINE

March

CNPN: presentation of PNA 3

Role of the scientific council (CS)

- Consultation on scientific topics
 - By meeting: face-to-face + visio
 - By a collaborative plateform
- Meetings as much as needed
- 8 permanent members:
 - M. Philippe BERNY (Vetagro Sup)
 - M. Sébastien DEVILLARD (University of Lyon)
 - Mme Christine FOURNIER (GREGE)
 - M. Tiit MARAN (Zoo of Tallin)
 - M. Johan MICHAUX (University of Liège)
 - M. Madis PODRA (LIFE lutreola Spain)
 - Mme Audrey SAVOURE-SOUBELET (MNHN/AFB UMS Patrinat)
 - M. Julien STEINMETZ (ONCFS)
- Ad hoc experts



Order of the day

- 1. PNAi assessment
 - 1. Presentation of the assessment
 - 2. Discussion about the assessment
- 2. Proposed actions for the PNA3
 - 1. Review of the workings groups
 - 2. Discussion about PNA3 actions







Order of the day

- 1. PNAi assessment
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Plan

Assessment of the European mink PNAi

January 1st 2015 - December 31st 2018

Objective 1: Monitoring within the PNAi application area

Objective 2: Fight against the factors of threat in nature

Objective 3: Conservation and breeding strategy of the European mink

Objective 4: Transversal actions







	N° action	Priority	Actions
Use existing data	111	1	Database management European mink, European polecat, American mink
	112	1	Concerted use of partners' available data
Characterization of European mink populations hearts	121	1	Organize the data providers networks to stimulate the feedback of opportunistic information (accidental trapping, observations, dead minks)
	122	1	Use of the genetic tool to identify the European mink species
	123	1	Start the first phase of monitoring campaigns with different methods
	124	2	Characterize the identified European mink populations hearts



Action n°111: Database management European mink, European polecat, American mink

- Creation of a database
 - Centralisation of historic data from all partners
 - All European mink, American mink, polecat and uncertain data
 - Under QGIS®
 - Managed by ONCFS
 - Accompanied by a data dictionary
- Creation of a specific database for genetic samples



Action n°111: Database management European mink, European polecat, American mink

- Analyze collaboratives platforms: ®Faune-Aquitaine
- Inclusion of the ONCFS specific data: ®BdBiodiv





Action n°112: Concerted use of available partners data

 Writing of a note on the species distribution and its inclusion into public policies



du Vison d'Europe Décembre 2018



Le Vison d'Europe est l'une des espèces les plus menacées en Europe et en France. Il est classé « en danger critique d'extinction » (CR) sur les listes rouges nationale et mondiale de l'UICN (Union internationale pour la conservation de la nature). L'espèce a bénéficié de deux Plans Nationaux d'Actions (PNA) en 1999-2003 et 2007-2011. Depuis 2014, un PNA intermédiaire met en œuvre des actions d'urgence dans l'attente de la rédaction d'un 3^{thme} PNA.

Le Vison d'Europe est une espèce particulièrement discrète, difficile à observer en nature. Les indices de présence habituellement utilisés pour suivre les espèces de mammifères (crottes et traces) sont rares et permettent difficilement d'identifier avec certitude l'espèce. Le Vison d'Europe est par ailleurs très difficile à distinguer de deux espèces assez proches morphologiquement : le Vison d'Amérique et le Putois d'Europe. Enfin, les suivis réalisés en France et en Europe ont montré que le Vison peut se déplacer sur de très grandes distances.



Actuellement, les sources de données disponibles pour caractériser la présence de l'espèce sont de leux ordres :

- · Des campagnes de prospection visant spécifiquement le Vison d'Europe :
 - Une première campagne mise en œuvre jusqu'en 2003 dans le cadre du 1^{er} plan national a permis de définir l'aire de répartition française du Vison d'Europe entre 1991 et 2003.
 - Une actualisation de cette répartition géographique est en cours avec un protocole prévoyant plus de 500 campagnes de prospections en 4 ans (2016-2020), réparties sur l'ensemble de l'aire de répartition possible, probable ou certaine de l'espèce.
- Des observations aléatoires :

Il s'agit principalement d'individus capturés lors de campagnes de lutte contre les animaux déprédateurs (Ragondin par exemple), ou bien de cadavres de Visons récoltés en bord de route. Quelques observations directes viennent compléter ces données.

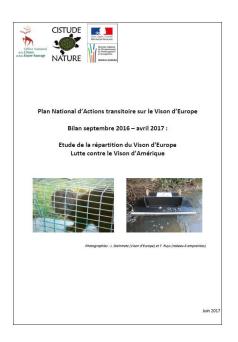
La cartographie présentée ci-dessous permet de visualiser ces données sur les périodes 2004-2009 et 2010-2014. La représentation se fait à l'échelle des bassins versants (Sous-Secteurs Hydrographiques de la couche BD Carthage de l'IGN et des Agences de l'Eau) pour lesquels des données de présence ont été récoltées. Seules les données avec identification certaine de l'espèce ont été retenues. Les caractéristiques de discrétion propre à l'espèce, n'interdisent pas l'hypothèse de présence de celle-ci sur des secteurs où aucune donnée n'a pu être collectée. Ceci est d'autant plus vrai sur les zones limitrophes des bassins où la présence est validée

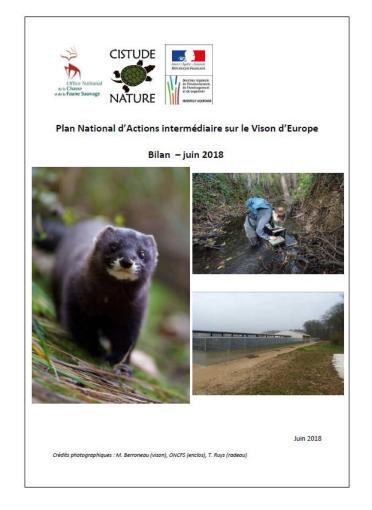
Pour mémoire, les textes réglementaires qui régissent la protection nationale de l'espèce et de ses habitats (art L.411-1 CE, Arrêté ministériel mammifères du 23/04/2007) interdisent la destruction des sites de



Action n°112: Concerted use of available partners data

- Writing of a note on the species distribution and its inclusion into public policies
- Annual PNAi assessments: 2016 and 2017







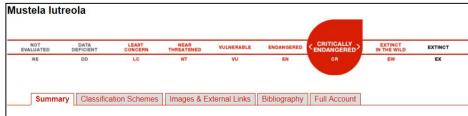
Action n°112: Concerted use of available partners data

- Writing of a note on the species distribution and its inclusion into public policies
- Annual PNAi assessments: 2016 and 2017
- Evaluations:

DHFF: conservation status of the

species

IUCN: red list





Action n°121: Organize the data providers networks to stimulate the feedback of opportunistic information (accidental trapping, observations, dead minks)

- Achievement and release of a form to accompany the data
- Reactivation of the points of contact network (action n°211)
- Start the centralisation of trapping assessments available in DDT(M)s

FICHE D'IDENTIFICATION MUSTELIDES A REMPLIR PAR LE REFERENT DU R	ESEAU
INFORMATIONS SUR LE REFERENT DU RESEAU	
Nom et prénom du référent :	
Lieu et heure de départ :	
Lieu et heure d'arrivée sur le site de capture :	
Heure et lieu de retour :	
Etape éventuelle :	
Kilométrage total :	
INFORMATIONS SUR LA CAPTURE Date :	
Nom et prénom du piégeur : Tél :	
Département : Commune : Zone / Lieu dit :	
Rivière : Bassin :	
Circonstance de la capture : piégeage ragondin piégeage mustélidés	
Type de piège : Coordonnées XY (Lambert 93):	
Lieu précis de la capture : Joindre à la fiche, une carte (1/25000) pointant le lieu précis de la capture Coordonnées GPS pour les référents équipés de GPS	
INFORMATIONS SUR L'ANIMAL CAPTURE	
Vison d'Europe Vison d'Amérique Putois Autres	
Photographies (obligatoires): tête face tête profil corps poil de bourre Transmises le : / /20 à :	
Si possible :	
Sexe : Mâle Femelle Prise de poils : oui non	
Estimation de l'âge : Jeune Jeune adulte Adulte	
Poids :	
Etat général : Très bon Bon Moyen Mauvais Indéterminé	
Signes particuliers :	
RECUPERATION CADAVRES PAR LE SERVICE DEPARTEMENTAL DE L'ONCES	tions
Lieu de transfert du cadavre : SD : Commune :	Observations
Numéro de la boucle auriculaire d'identification :	O _S
Merci de retourner cette fiche à : ONCFS, Christelle Bellanger, 255 route de Bounes, 86000 mail : christelle.bellanger@oncfs.gouv.fr Tel : 05.49.52.01.50 accompagnée des photographie l'ammal, des pois (dans une enveloppe en papier) et de la localisation du sâe de capture sur une	es de



Action n°122: Use of the genetic tool to identify the European mink species

 Sample (dead minks, hairs and scats) collected during protocols implementation: European mink monitoring (action n°123) and fight against American mink (action n°223)





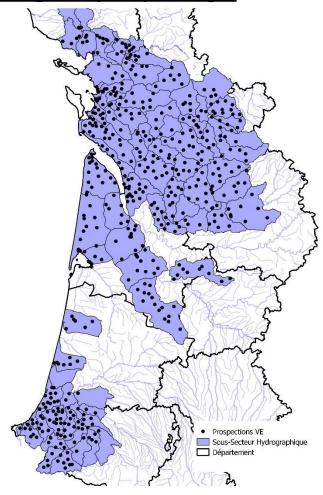
Action n°122: Use of the genetic tool to identify the European mink species

- Sample (dead minks, hairs and scats) collected during protocols implementation: European mink monitoring (action n°123) and fight against American mink (action n°223)
- Samples centralisation and storage to ONCFS
- Management through the dedicated database (action n°111)
- Thinking on possible genetic analysis depending of targeted questions



Action n°123: Start the first phase of monitoring campaigns with different methods

1) Targeted prospectings:

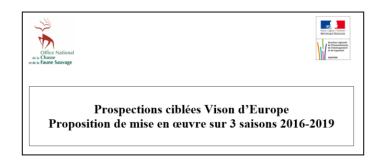


Initial protocol (started in 2016):

- 371 campaigns
- from 2016 to 2019
- presence data > 2004

Adjusted protocol (March, 2018):

- 371 + 148 = **519** campaigns
- from 2016 to 2019
- presence data > 2004



Trapping protocol



Action n°123: Start the first phase of monitoring campaigns with different methods

1) Targeted prospectings:

Position of traps in the field:

- 10 traps during 10 consecutive nights or 2x4 nights (excluding week-end)
- Traps distributed among 3-4 groups covering approximately 3 km of river or 3 km² of swamp

Bait: sardines in oil

Period:
September → March

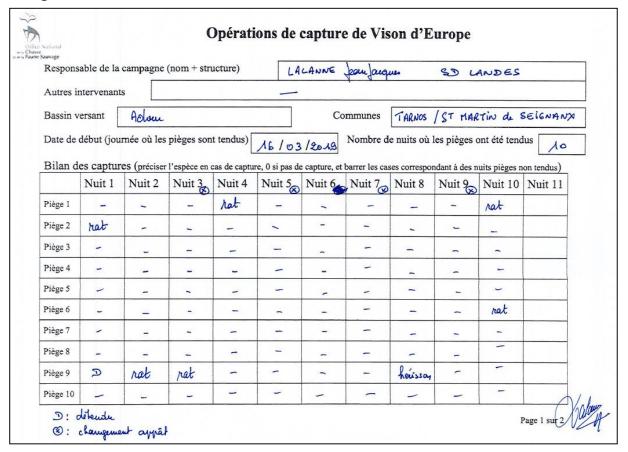


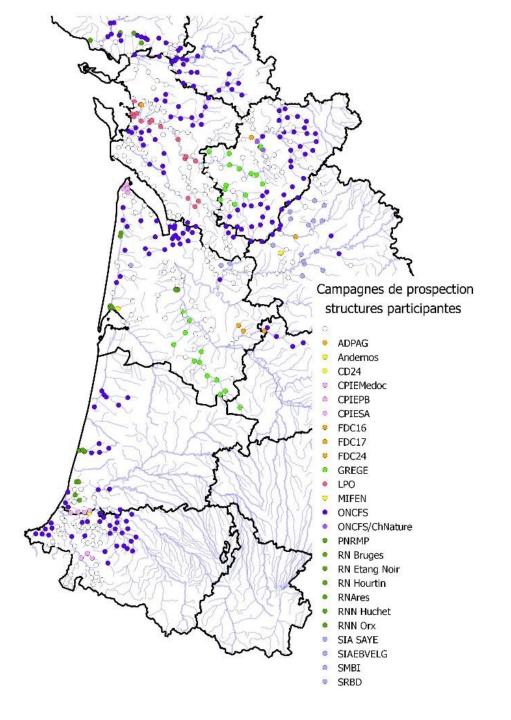


Action n°123: Start the first phase of monitoring campaigns with different methods

1) Targeted prospectings:

Prospecting result form:



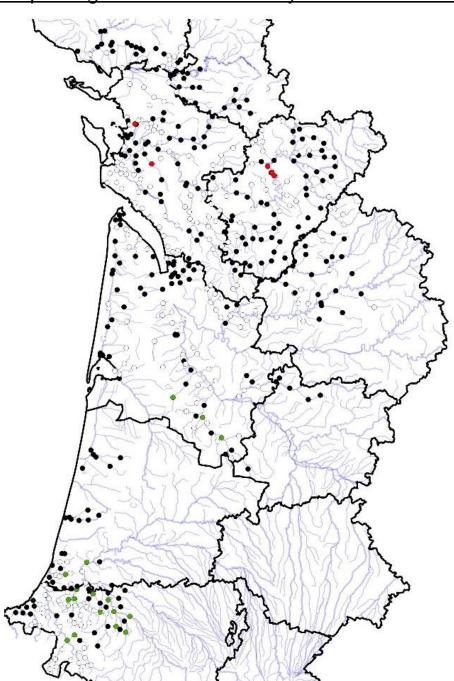


Year	Number of realized propectings	Number of prospecting nights	
2015	0	0	
2016	36	3038	
2017	126	11 066	
2018	117	11 308	
Total	279	25 412	



279/519 = **54%**

Prospecting results from January 1st 2015 and December 31st 2018:



- O Campaigns not realized
- Negative campaigns
- 10 captured European minks
 - 2 ♂ and 1♀ in 2017 3 ♂ and 4♀ in 2018 PNAi + LIFE
- 20 American minks (in 17 prospectings)
 - → Immediate euthanasia on the spot



Action n°123: Start the first phase of monitoring campaigns with different methods

1) Targeted prospectings:

Prospecting results from January 1st 2015 and December 31st 2018:









Action n°123: Start the first phase of monitoring campaigns with different methods

2) Other tested methods:



Vers une nouvelle méthode de détection des espèces de mammifères semi-aquatiques : étude pilote et approche « Metabarcoding ADNe »



Julien Steinmetz¹, Sandrine Ruette², Thomas Ruys³, Pauline Jean⁴, Tony Dejean⁴

¹ ONCTs, Delégation régionale Occitanie, Céllule technique Sauf Ouest-Toulouse. ² ONCTs, Direction de la rechar test de l'expertise, Unité Prédateurs et animaux déprédateurs-Brieux. ² Cétude Nature - Chemin du Moullant, 33185 Le Haillan. ⁴ SPVGEN-17, rue du Lac Saint-André. ² 13370 Le Bourger-du-Lac. Le développement de techniques permettant la détection de fragments d'ADIN présents dans l'environnement ouvre des perspectives nouvelles pour l'étude et le suivi de la biodiversité. Ces méthodes d'investigation de pointe ont déjà donné des résultats très prometteurs pour de nombreux groupes d'espèces en milieu aquatique. Devant les attentes d'amélioration des connaissances sur la répartition de cer taines espèces de mammifères, notamment le vison d'Europe, nous avons cherché à évaluer les possibilités d'application de ces techniques au groupe des mammifères semi-auutations.

- Environmental DNA
- Genetic analysis from water samples
- Search of 12 semi-aquatic mammals species
- → Results: Unsuccessful method for now (effort sampling, cost, detectability) to identify European mink, Amercian mink and polecat



Action n°123: Start the first phase of monitoring campaigns with different methods

2) Other tested methods:





- Environmental DNA
- Detection dog for European and Amercian minks detection

- Enticed camera traps
- Hair-traps
- Print-traps

PNAi

Undergoing tests

LIFE Vison



Action n°124: Characterize the identified European mink populations hearts

- Within the PNAi:
 - Potential information via genetic analysis (waiting for results)
 - No specific implementation because not ended action n°123
- Within the LIFE Vison program:
 - 7 European minks (from 16 and 17 departments): identification electronic chip



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	122	1	Use of the genetic tool to identify the European mink species
	123	1	Start the first phase of monitoring campaigns with different methods
	124	2	Characterize the identified European mink populations hearts

Full implementation or continue

Partial implementation

Not implemented



Objective 2: Fight against the factors of threat in nature



Objective 2: Fight against the factors of threat in nature

	N°action	Priority	Actions
Limit mortality due to fight against pests	211	1	Limit European mink mortalities by improving the efficiency of points of contact network
	212	1	Strive to a right balance between the local implementation of public policies and European mink conservation issues
Fight against American mink	221	1	Updating the American mink distribution from existing data
	222	1	Assemble, reactivate and animate networks for trapping and fighting against American mink
	223	1	Organise the implementation of a targeted action to fight against American mink in predefined areas
	224	2	Organise operations to eliminate American minks in the priority river basin sub-sectors
	225	1 or 2	Reactive figth in case of discovery of a new core of Amercian minks threatening European mink populations
	226	-	Secure active Amercian mink farms



Objective 2: Fight against the factors of threat in nature

	N°action	Priorités	Actions
Habitat	231	1	Limit harmful habitat management actions for the European mink
improvement	232	1	Limit the death risks due to road collisions



Action n° 211: Limit European mink mortalities by improving the efficiency of points of contact network

- Revitalise departmental points of contact network (n=240)
 - Writing of a procedure for the points of contact to identify mustelids species
 - 6 trainings carried out in 2018 for 8 departments (85, 79, 16, 17, 33, 24, 40, 64)
 - Update of the members official lists





Action n° 212: Strive to a right balance between the local implementation of public policies and European mink conservation issues

- In 2016, the CNCFS assented for the maintenance of the « mink's hole »
- Bromadiolone > 2015 distance from rivers
- American mink listed as « Invasive Alien Species »
 - Europe, not in 2017 (maybe in 2019)
 - Metropolitan France, yes in 2018

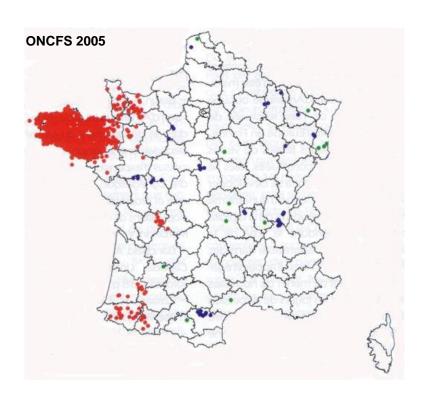


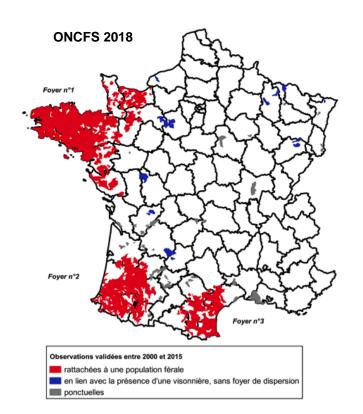




Action n° 221: Updating the American mink distribution from existing data

Evolution of the American mink distribution (2005-2015)







Action n° 222: Assemble, reactivate and animate networks for trapping and fighting against American mink

- Since 2018 > participation of some trappers at « mink points of contact » trainings
- Specific training for trappers proposal with hunting federations





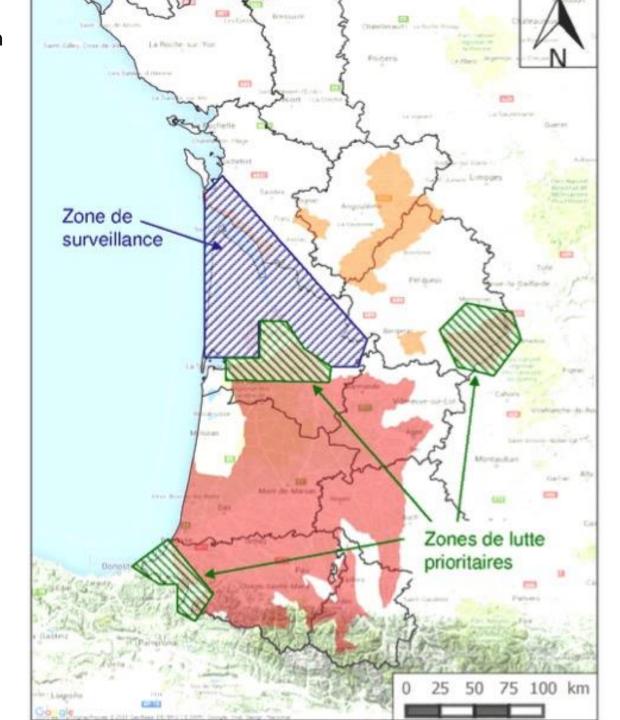
Action n° 223: Organise the implementation of a targeted action to fight against American mink in predefined areas

- 2015: Bibliographical study, feasibility study of fight against the American mink (ONCFS)
- 2016: Methodological basis of fight against the American mink with « print rafts »
- 2017: Update of the fight protocol
- 2017-2018: Positioning of rafts





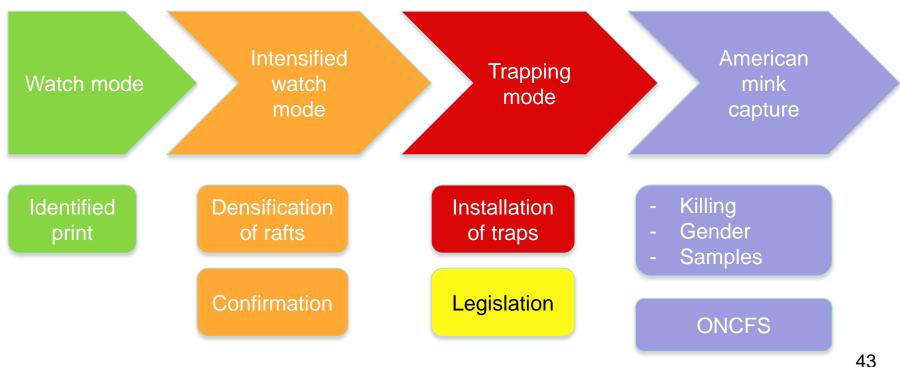
Illustration of the figth methodology frame



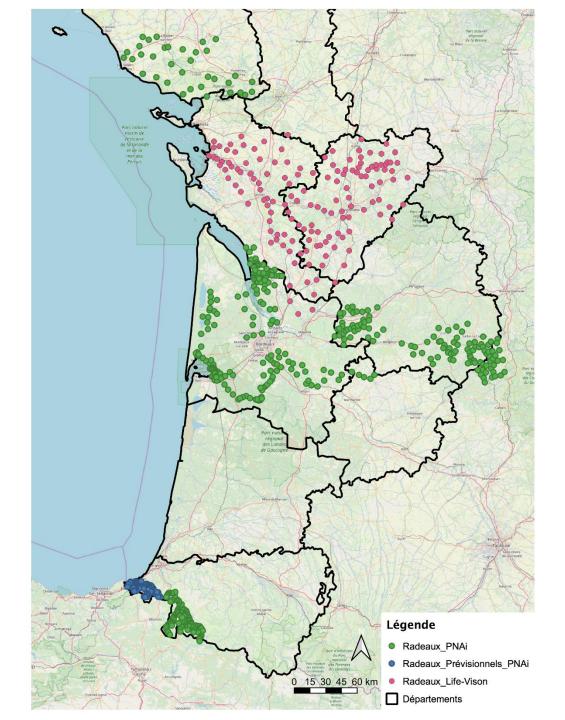


Action n° 223: Organise the implementation of a targeted action to fight against American mink in predefined areas

> Current figth protocol



General localisation of rafts





Action n° 223: Organise the implementation of a targeted action to fight against American mink in predefined areas

> Assessment of rafts monitoring 2016 - 2018

PNAi areas	Nb of rafts	Nb of positive	Nb of captures
Gironde / Ouest Dordogne	269	36	7
Est Dordogne	82	10	0
Sud-PA	101	66	0
(Vendée)	35	0	0
Total	487	112	7



Action n° 224: Organise operations to eliminate American minks in the priority river basin sub-sectors

No European mink data in the American mink areas (PNAi, between 2015 and 2018) →
 No intervention



New European mink data on 06/03/2019 in Bayonne

Action n° 225: Reactive figth in case of discovery of a new core of Amercian minks threatening European mink populations

- Implementation of rafts' monitoring at the end of 2018 (effective in January, 2019)
- No trapping phase initiated



Action n° 226: Secure active Amercian mink farms

• Evolution of the number of American mink farms (2013-2018)

	2013	2016	Dec. 2018
Nb of farms in France	20	10	7
Nb of farms in PNAi zone	6	4	2

- Farm of 79 department: last inspection in 2017, in compliance with requirements (double fences, set of traps)
- Farm of 64 department:
 - 2012: « Classified Facility for Environmental Protection » (ICPE), only DDCSPP 64 is authorised to control
 - ➤ 2017: First inspection by appointment (15 points: installations design, animal welfare, stormwater management, food...)
 - > 2018: DREAL/ONCFS demand > Joint inspection **DDCSPP 64 / ONCFS: Correcti***e observation to be engaged.



Action n° 226: Secure active Amercian mink farms

- 2018: ONCFS has carried out a protocol of control on the porosity of farms
 - MTES demand ONCFS DREAL inspection (Fight against invasive species policy)
 - Organisational meeting underway, objective to control at the end of 2019





Action n° 231: Limit harmful habitat management actions for the European mink

- « Good practices » guide for the European mink conservation not updated
- List of « risk practices » for the European mink not done
- Recruitment of a policy officer in November 2018
 - Responses to Natura 2000 managers requests
 - Contact mail to managers



Action n° 232: Limit the death risks due to road collisions

Main actions carried out and results:

- 2016: Methodology for hierarchical mapping of collisions black points minks road infrastructures (CEREMA SO)
- 2018: Will to act concretely > priorisation of action areas > **Gironde**
 - Synthesis work under GIS based on data
 - CEREMA SO
 - Collisions ONCFS
 - Permeability of civil engineering structures in 16 and 17 (Life Vison)
 - Permeability of railway structures for LGV-SEA
 - Many exchanges (PNAi Funders)
 - Choice of 41 structures to be requalified before the end of 2019 with CG 33





	N°action	Priority	Actions
Limit mortality due to fight against pests	211	1	Limit European mink mortalities by improving the efficiency of points of contact network
	212	1	Strive to a right balance between the local implementation of public policies and European mink conservation issues
Fight against A. mink	221	1	Updating the American mink distribution from existing data
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	226	-	Secure active Amercian mink farms



	N°action	Priorités	Actions
Habitat	231	1	Limit harmful habitat management actions for the European mink
improvement	232	1	Limit the death risks due to road collisions

Full implementation or continue

Partial implementation

Not implemented





	N° action	Priority	Actions
Definition of a conservation and/or reinforcement strategy	311	1	Definition of a conservation and/or reinforcement strategy
Launch of the breeding center	321	1	Definition of transfer arrangements
	322	1	Rapid provision of animals
Preparation of the possible releases	331	2	Identification of potential release territories
	332	2	Preparation of the chosen territories



Action n°311: Definition of a conservation and/or reinforcement strategy

- At the end of 2014, synthesis of reintroduction strategies and feedback
 - Technical, financial, human resources etc.
 - Germany, Estonia, Spain etc.





Action n°311: Definition of a conservation and/or reinforcement strategy

- A the end of 2014, synthesis of reintroduction strategies and feedback
- April 16th, 2015, external audit
 - National : M.Sarrazin, M.Steinmetz, Mme.Guinot-Ghestem, M.Moutou, M.Devillard
 - International: M.Maran, M.Podra, M.Michaux

Rapport d'audit sur la

«Proposition de stratégie de conservation du Vison d'Europe Mustela lutreola associée à l'élevage en France »

présentée par Julien Steinmetz le 1^{er} juin 2015

Cet audit s'est déroulé en plusieurs étapes. Un premier échange entre François Sarrazin (Université Pierre et Marie Curie, CS ONCFS), Julien Steinmetz (DIR Sud-Ouest, ONCFS) et Murielle Guinot-Ghestem (CNERA PAD, ONCFS) a eu lieu le 16



Action n°311: Definition of a conservation and/or reinforcement strategy

- At the end of 2014, synthesis of reintroduction strategies and feedback
- April 16th, 2015, external audit
 - National : M.Sarrazin, M.Steinmetz, Mme.Guinot-Ghestem, M.Moutou, M.Devillard
 - International : M.Maran, M.Podra, M.Michaux
- July 3rd, 2015, audit by the ONCFS Scientific Council
- September 10th, 2015, results sent to the Ministry



Action n°311: Definition of a conservation and/or reinforcement strategy

May 27th 2016, the CNPN assent the proposed strategy (with PNAi)



- → Several scenarii presented but no settled choice
- → To be discussed within the PNA 3



Action n°321: Definition of transfer arrangements

 Within the PNA 2: building of the European mink breeding center in Zoodyssée (Villiers en Bois, Deux-Sèvres) → finished in 2014

Financers → Regional Council, Department Council of Deux-Sèvres, FEADER







Action n°321: Definition of transfer arrangements





Action n°321: Definition of transfer arrangements

- Within the PNA 2: building of the European mink breeding center in Zoodyssée (Villiers en Bois, Deux-Sèvres) → finished in 2014
- March 2014, tasks assignment: DREAL NA, Zoodyssée, ONCFS
- → <u>Objective:</u> bringing European mink from Estonia via the « European Endangered species Project » (effective comptability of health, genetic and regulatory conditions)





Action n°322: Rapid provision of animals

20 and 21 March 2015: arrival of the EEP coordinator (Tiit Maran) in Zoodyssée





Action n°322: Rapid provision of animals

- 20 and 21 March 2015: arrival of the EEP coordinator (Tilt Maran) in Zoodyssée
- April 2nd 2015, arrival of 2 European mink from the Calviac Zoological Reserve





Action n°322: Rapid provision of animals

 11 and 12 May 2017: ONCFS participates in the « Long Term Management Plan of European Mink » drafting (Romania)





Action n°322: Rapid provision of animals

- 11 and 12 May 2017: ONCFS participates in the « Long Term Management Plan of European Mink » drafting (Romania)
- January 2018: joint visit of Zoodyssée and ONCFS in Spain







Action n°322: Rapid provision of animals

Evolution of the number of captive minks:

	Males	Females
2015	1	1
2016	6	4
2017	5	4
2018	6	4



→ No birth (Zoodyssée & Calviac Zoo Reserve)



Males with inadequate reproductive behaviour: hyper-agressiveness or passivity



Action n°322: Rapid provision of animals

May 25th, 2016, artificial insemination attempt:





Action n°331: Identification of potential release territories

No action implemented

Action n°332: Preparation of the chosen territories

No action implemented



	N° action	Priority	Actions
Definition of a conservation and/or reinforcement strategy	311	1	Definition of a conservation and/or reinforcement strategy
Launch of the breeding center	321	1	Definition of transfer arrangements
	322	1	Rapid provision of animals
Preparation of the possible releases	331	2	Identification of potential release territories
	332	2	Preparation of the chosen territories

Full implementation or continue

Partial implementation

Not implemented



Objective 4: Transversal actions



Objective 4: Transversal actions

N° action	Priority	Actions	
41	-	Construction of global financing plan and projects	3
42	-	Coordination and interregional animation	3
43	-	Communication	
44	-	Assessment and PNA 3 writing	3



Objective 4: Transversal actions

Action n° 43: Communication

- 7 Colloquium and seminars (40th francophone colloquium on Mammalogy, Oct.2018...)
- 20 communications to partners and public announcements (Festival of the Chevêche, 52 minutes film « Sauvons le Vison d'Europe », booklet/poster...)
- 5 international communications (Oral presentation « Situación del Visón Europeo y el visón Americano in Francia », 2017 ; European Mink Newsletter, 2018)





Objective 4: Transversal actions

N° action	Priority	Actions	
41	-	Construction of global financing plan and projects	
42	-	Coordination and interregional animation	
43	-	Communication	
44	-	Assessment and PNA 3 writing	

Full implementation or continue

Partial implementation

Not implemented



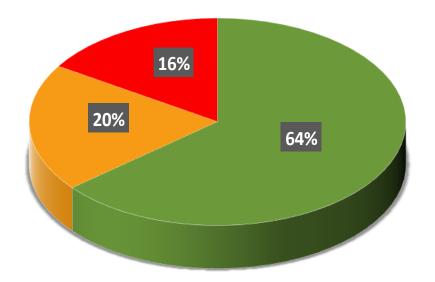
Conclusion



Conclusion the PNAi assessment

Global assessment:

PNAi (2015-2018) = 6 + 10 + 5 + 4 = 25 actions







■ Mise en œuvre totale ou à poursuivre
■ Mise en œuvre partielle
■ Non mise en œuvre



Conclusion the PNAi assessment

Human resources:

<u>Coordinator + Technical and scientific leader + Network leade:</u>

	DREAL NA (ETP)	ONCFS AST (ETP)	Cistude Nature (ETP)
2015	0.1	0.8	0.5
2016	0.1	0.9	0.7
2017	0.2	1	0.7
2018	0.25	1.3	0.95
Total	0.65	4	2.85



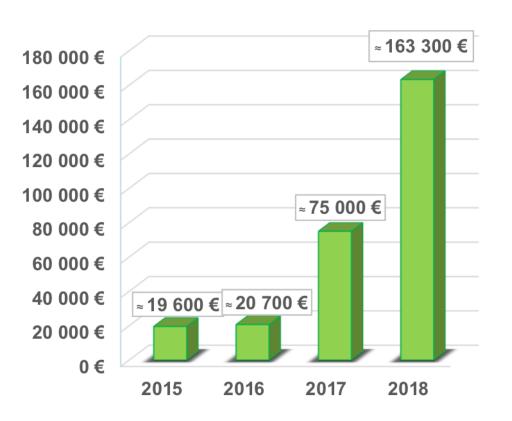
Others actions of the PNAi:

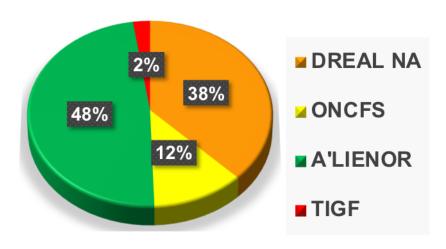
- European mink prospectings: > 8 470 days
- Fight against the American mink: > 278 days





Financial assessment:





<u>Total PNAi</u>: 278,704 € (excluding human costs related to animation and coordination)

+ 3,954,771 € for the LIFE Vison









Order of the day

- 1. PNAi assessment
 - 1. Presentation of the assessment
 - 2. Discussion about the assessment
- 2. Proposed actions for the PNA3
 - 1. Review of the workings groups
 - 2. Discussion about PNA3 actions

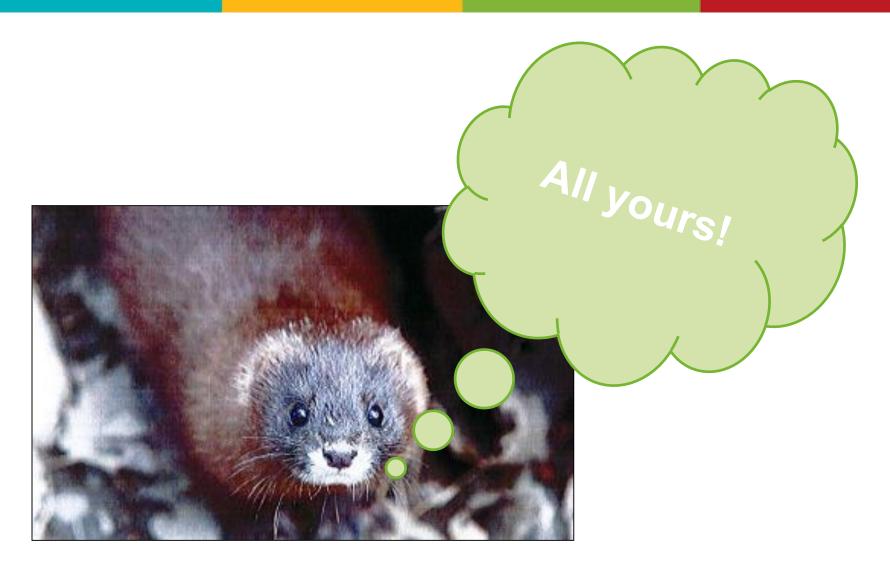












Order of the day

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A

Review of the working groups

- 1. « Improving knowledge on the European mink »
 - May, 28th (2h), 7 members of COPIL
- 2. « Breeding of European mink and conservation strategy »
 - May, 28th (2h), 3 members of COPIL
- 3. « Communications, Financing »
 - May, 28th (1h30), 4 members of COPIL
- 4. « Figth against Amercian mink »
 - May, 29th (2h), 13 members of COPIL
- 1. « Fight against other threat factors »
 - May, 29th (2h), 15 members of COPIL

A

Review of the working groups

5 Objectives = 13 actions = 35 sub-actions

- 1. Improving knowledge on the European mink
- 2. European mink ex situ conservation
- 3. Limiting the impact of American mink on European mink
- Fight against others threats factors on the European mink in nature
- 5. Communication and training on European mink and PNA3 actions

Order of the day

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