Species name	Rationale	Zoos working with	Proposed by
		the species	
Fen raft spider	The Fen Raft Spider fostering programme in a project led by Dr Helen Smith	Dudley, Bristol,	The Deep, Durrell
	for NaturalEngland and Sussex and Suffolk Wildlife Trusts finished 2015 after 5 years of zoos	Beale Park,	Wildlife
	and aquariums taking an active role in the rearing and release of spiderlings to increase the	Chessington,	Conservation Trust
	populations of this endangered species across Norfolk and Suffolk through translocation	Chester, The Deep,	
	techniques. The involvement of BIAZA institutions (including The Deep for the years 2012/2013)	Lakeland Wildlife	
	in this programme received unprecedented success, rearing over 2000 spiderlings, and resulted	Oasis, ZSL London	
	in no further intervention needed at this time, however populations are still being closely	Zoo, Reaseheath	
	monitored and small scale rearing being undertaken. London Zoo have since taken in a pair for	Agricultural College	
	the education of their visitors and to hold a captive population. Zoos are still heavily invested in	and Tilgate Nature	
	this programme and will be ready to undertake fostering roles again if needed in the coming	Centre.	
	years.		
	Quote from Dr Helen Smith: "The contribution made by BIAZA zoos and collections, in		
	rearing thousands of these beautiful but endangered spiders for release into the wild, was		
	critical to the success of the project. The new Fen raft spider populations established in East		
	Anglia since 2010 are a tribute to their expertise and enthusiasm" – Dr Helen Smith, Natural		
	England.		
	http://www.dolomedes.org.uk/		
Common Crane	The Great Crane Project, a partnership between WWT, RSPB and Pensthorpe Conservation	WWT's Slimbridge.	WWT Slimbridge,
	Trust, with major funding from Viridor Credits Environmental Company, aimed to re-establish a	Martin Mere &	Durrell
	sustainable population of Common Cranes in Britain. Between 2010 and 2014, the project	Washington,	
	released 94 birds on the Somerset Levels and Moors, of which around 75 are still alive and well.	Pensthorpe	
	The released population is already successfully breeding with 4 fledglings recorded in 2015.		

	one site, Slapton Ley in southwest UK.		3
rapwort	Strapwort Corrigiola litoralis is a critically endangered plant in the UK, restricted to just	WWCT Paignton Zoo	Paignton Zoo
	adoption of conservation-friendly land use.		
	project for the conservation and restoration of wetland landscapes and will encourage wide		
	delivering wider wetland conservation benefits in Britain. The Great Crane Project is a 'flagship'		
	and PR throughout the project to highlight the potential of targeted conservation work for		
	Somerset. To this end, the partners delivered a sustained programme of public engagement		
	The project also engaged landowners, the conservation sector and general public with crane reintroduction, and encouraged its promotion as part of a sustainable rural economy in		
	attachment technique trial to assess the effectiveness of the leg-rings and satellite transmitters.		
	satellite transmitters to facilitate post-release monitoring, were released from a purpose-built release enclosure. Captive Common Cranes in the WWT Slimbridge collection were used in the		
	potential for additional habitat creation. The juvenile Common Cranes, fitted with leg-rings and		
	location in the UK, due to the availability of existing breeding and feeding habitat, and the		
	Extensive research identified the Somerset Levels and Moors as the best reintroduction		
	Slimbridge to trial these techniques prior to the Great Crane Project starting.		
	(puppet/costume) technique. A captive collection of cranes were established at WWT		
	facilities, the eggs were hatched and the chicks hand-reared by the isolation-rearing		
	Germany. The eggs were translocated to rearing facilities at WWT Slimbridge. At the rearing		
	eggs collected under licence from the nests of wild birds living in an established population in		
	five years) between 2010 and 2014. The juvenile cranes for reintroduction were acquired as		

lazel dormouse	BCA hold a pair of this species with hopes to breed in the near future as part of the breeding programme. Young will be released to the wild as part of the programme. Wildwood breed this species for release as part of the breeding programme.	BCA, Paignton Zoo, ZSL, Chester	BCA, Paignton, Chester
la-al damas	26861525-detail/story.html	DCA Deignton 7	DCA Deignten
	http://www.westernmorningnews.co.uk/strapwort-reintroduced-Cornish-beach-Whitley/story-		
	Press story after 2015 trial reintroduction		
	http://www.wwct.org.uk/conservation-research/south-west-uk/slapton/strapwort		
	For more details see WWCT website and associated reports:		
	Council; Natural England and the National Trust.		
	to Loe Pool. This project has involved a number of partners including the Field Studies		
	NE had agreed to fund WWCT to carry out a 5 year re-introduction project of Strapwort		
	site. The plants flowered and set seed, with seedlings observed. Following this success		
	1500 plants were propagated and planted on the shores of Loe Pool, a National Trust		
	carry out a trial re-introduction at a former (100 yrs ago) Strapwort site in Cornwall.		
	remains restricted to one site. In 2015, WWCT secured funding from Natural England to		
	the population at Slapton is healthy, the risk of extinction is high whilst the plant		
	they reached a sustainable level. Monitoring of plant numbers is on-going. Although		
	Slapton Ley. We used these plants to bolster the wild population over five years until		
	plants from seed from the millennium seed bank, Kew and the wild population at		
	management and monitoring. Our horticulture dept at Paignton Zoo has propagated		
	habitat requirements of the plant followed by implementing appropriate site		
	We have led this species recovery programme which has consisted of research into		

Over the last 100 years the endangered Hazel dormouse Muscardinus avellanarius has become extinct in almost half the UK counties where it used to thrive. In 1993 the hazel dormouse reintroduction programme was initiated as part of the English Nature (EN) Species Recovery Programme in response to this loss. Paignton Zoo has been actively involved in the re-introduction of dormice to 25 sites to boost local populations or put them back into counties where they had disappeared completely. Paignton Zoo breeds dormice for reintroductions and co-ordinates the captive breeding at other collections. All the dormice for release are sent to Paignton Zoo or ZSL for quarantine and health checks by our vets before they are paired up for release.

This PTES (people trust for endangered species) led project is ongoing with the successes of the reintroductions being carefully monitored. At five of these sites dormice have successfully spread throughout the woodland where they were released. At seven sites they done even better, not only dispersing throughout the wood but starting to colonise new areas. The reintroductions are part of a wider programme managed by PTES, to improve and increase suitable dormouse habitats by working with landowners across the country.

For more details see WWCT/ Paignton Zoo & PTES websites and associated reports: http://www.wwct.org.uk/conservation-research/south-west-uk/dormice & https://ptes.org/house-a-dormouse/dormouse-reintroductions/

	https://ptes.org/get-informed/facts-figures/hazel-common-dormouse-muscardinus-avellanarius/ http://www.lbp.org.uk/downloads/Publications/SpeciesInfo/NE_EU_dormouse.pdf IUCN Red List — Least Concern UK BAP Priority Species		
	Protected under Schedule 5 of the Wildlife and Countryside Act 1981, as amended, and by Schedule 2 of the Conservation (Natural Habitats &c) Regulations, 1994, making the hazel dormouse a European Protected Species.		
	A number of zoos are involved in conservation work with this species – work ranges from captive breeding for reintroduction and ecological research, to habitat management on protected sites and monitoring for the National Dormouse Monitoring Scheme.		
White Clawed Crayfish	Bristol In 2010, the white-clawed crayfish Austropotamobius pallipes was reclassified by IUCN as Globally Endangered throughout its range in the UK and rest of Europe. A. pallipes is the UK's only freshwater crayfish and a keystone species of our aquatic ecosystems. Bristol Zoological Society (BZS) established the South West Crayfish Partnership (SWCP) in 2008 in the response to this species global decline; in the South West alone it has experienced a 70% decline since the 1970's when the invasive signal crayfish Pascifastacus leniusculus, was brought in to England to be farmed for food. The SWCP is made up of BZS, the Environment Agency, Wildlife Trusts, The Centre for Environment, Fisheries and Aquaculture Science (Cefas) and Buglife. The SWCP has four main strands:	Sparsholt College, WWT Slimbridge, Paignton Zoo, London Aquarium, Aquarium of the	Bristol Zoo, WWT Slimbridge

- 1. Establishing ark sites (safe lentic or lotic refuges where a proportion of a threatened population can be translocated). So far 17 sites have been established for both wild caught translocations and captive bred reintroductions. Over 5000 wild crayfish from 8 highly threatened populations have been moved and over 1000 captive bred crayfish have been moved into ark sites. Bristol Zoo monitors over 50% of these ark sites annually and in 2015, set up the first captive bred research ark site in Somerset with a second captive bred research ark site due to be established in Hampshire later during 2016.
- 2. Education delivering a communication strategy, educating not only zoo guests but water way users and the general public on how they can help conserve the species, tying this into Defra's Check, Clean and Dry and Be Plant Wise initiatives. Education campaign includes not only outreach events but also setting up a flagship fishery, delivering a crayfish roadshow into schools and running themed events within the zoo.
- 3. Hatchery establishment at Bristol Zoo. The A. pallipes hatchery at Bristol Zoo was set up in 2009 and has produced over 3000 crayfish juveniles for either wild release or to be housed at other BIAZA institutions for outreach, research and to potentially establish other breeding programmes. Bristol Zoo not only brings in ovigerous wild caught females for hatching and rearing of their youngsters but also breeds both wild and captive born crayfish in captivity. Currently the focus of the hatchery is to breed and rear one of the last two known Hampshire populations to produce young to supplement the existing wild population.
- 4. Signal crayfish mitigation. SWCP steering members such as Cefas, have been working, for over a decade, investigating P. leniusculus trapping efficacy, which has relied heavily on citizen science and data collected by anglers. They have also been trialling male sterilisation in conjunction with trapping and baiting techniques in the laboratory. These techniques are now being tested in-situ. Coupled to all the strands is a strong element of research to ensure that all elements are fully documented and their efficacy validated.

WWT Slimbridge Please contact Bristol Zoo about their crayfish in crisis project. WWT Slimbridge assists Bristol Zoo by providing an outlet for their captive bred crayfish and engaging the public in their story.

	The Crayfish in Crisis Project was launched in 2012, with thanks to a grant of £47,000 from Heritage Lottery Funding. The South West Crayfish Partnership was set up in 2008 in response to a dramatic 70 percent decline in numbers of the UK's only native crayfish species – the white-clawed crayfish (Austropotamobius pallipes) - in south west England. White-clawed crayfish became classified as Globally Endangered in 2010 (IUCN), and are at risk of becoming extinct from Great Britain in the next 20-30 years. Working as part of the Partnership, the Crayfish in Crisis project aims to conserve endangered native crayfish through field conservation, captive breeding, research and education.		
Agile Frog	Jersey Action Plan species. Head-starting wild-collected spawn for release into single traditional site and for translocation within Jersey. Between 1987 and 2014, 48,700 froglets released. Action plan http://www.gov.je/SiteCollectionDocuments/Environment%20and%20greener%20living/ID%20BiodiversityBookletAmphibians%20%20DM.pdf	Durrell	Durrell Wildlife Conservation Trust
Cirl Bunting	The Cirl Bunting is a small farmland passerine that was once widespread and common across much of southern England, but now has declined to a small area of south Devon, mostly confined to coastal farmland between Plymouth and Exeter. This is due to agricultural intensification. For more details see WWCT/ Paignton Zoo & RSPB websites and associated reports: As part of a large landscape scale project led by RSPB, aviculturists from Paignton Zoo hand reared chicks, taken under licence, for release into an area of Cornwall to establish a new sustainable population. Releases were carried out between 2006 and 2011 with the Cornish population currently stable and expanding naturally. http://www.wwct.org.uk/conservation-research/south-west-uk/cirl-bunting http://www.rspb.org.uk/community/ourwork/farming/b/farming-blog/archive/2015/02/23/cirl-bunting-success-in-the-south-west.aspx http://www.paigntonzoo.org.uk/explore/blog/detail/cirl-bunting-conservation-project?gclid=Cj0KEQjwoYi4BRDF_PHHu6rI7NMBEiQAKZ-JuKQxU_ME5ixL438-Fuhj0ROqTBSHfbuPeQSnBi0TkbcaAjG38P8HAQ	Paignton, ZSL	Durrell Wildlife Conservation Trust, Paignton
European Beaver	http://www.rzss.org.uk/conservation/our-projects/project-search/field-work/our-work-with-beavers/ details the reintroduction project and the external partners we work with.	RZSS	RZSS HWP

Water Vole	The UK water vole population decreased dramatically in the last half of the 20 th century. The	WWT Slimbridge,	WWT Slimbridge
	much loved rodent, characterised as Ratty in Wind in the Willows, population dropped to a	NFWP, Wildwood	
	minute proportion and had become locally extinct in some areas of the country. Its decline	Trust	
	broadly reflects issues threatening UK wetlands. Wetland loss, rivers concreted into culverts		
ĺ	and canals no longer provides food or shelter for the burrowing herbivore and the invasive		
	species, American mink providing a top predator that the water vole had not experience		
	previously.		
	Water voles are thriving at the following WWT sites, WWT Llanelli, WWT Martin Mere, WWT		
	Slimbridge and WWT Welney. At WWT Arundel and WWT London, WWT introduced new		
	populations to give them a kick start and they have been incredibly successful. WWT Arundel is		
	widely recognised as being possibly the best place in the country to get a glimpse of a water		
	vole.		
	In order to carefully manage the ditches on our reserves for the water voles, we have enlisted		
	the support of the Internal Drainage Boards – the public bodies responsible for maintaining the		
	ditch systems in wetter parts of the UK. Their help in sensitively clearing ditches combined with		
	our planting and management has reaped some great results. At WWT Slimbridge, the amount		
	of ditches used by water voles went up from just 250m to over 15 kilometres in just four years!		
	The sheer number of voles living on some of our reserves gives us and others great opportunity		
	to study their behaviour and ecology. Studies at WWT Arundel, looking into the genetic links		
	between populations is starting to reveal how water voles might repopulate the countryside		
	one day.		
Red Billed	Extinct in Jersey. Release of captive-bred red-billed chough into Jersey where species	Durrell (also Paradise	Durrell Wildlife
Chough	absent for 100 years. First wild-hatched chick in 2015 and 21 birds in wild flock by	Park - non-BIAZA)	Conservation Trust
	March 2016. Project website www.birdsontheedge.org		