

Supplementary material

Effect of fire on small mammals: a systematic review

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Table S1. Database of experimental assessments of the influence of fire on small mammals across different regions and vegetation types, including references, based on a systematic review of the literature from 1995 to 2012

Continent	Vegetation type	Experimental design	Species	Reference
Africa	Grassland	Post-fire	<i>Myosorex varius</i>	(Rowe-Rowe 1995)
			<i>Otomys irroratus</i>	(Rowe-Rowe 1995)
			<i>Rhabdomys pumilio</i>	(Rowe-Rowe 1995)
	Savannah	Pre- and post-fire	<i>Elephantulus brachyrhynchus</i>	(Yarnell <i>et al.</i> 2008)
			<i>Lemniscomys rosalia</i>	(Monadjem and Perrin 1997)
			<i>Mus minutoides</i>	(Monadjem 1999)
			<i>Steatomys pratensis</i>	(Monadjem 1999)
			<i>Aethomys ineptus</i>	(Yarnell <i>et al.</i> 2007)
			<i>Gerbilliscus leucogaster</i>	(MacFadyen <i>et al.</i> 2012)
			<i>Lemniscomys rosalia</i>	(Yarnell <i>et al.</i> 2007)
			<i>Mastomys coucha</i>	(MacFadyen <i>et al.</i> 2012)
			<i>Mastomys coucha</i>	(Yarnell <i>et al.</i> 2007)
			<i>Mus indutus</i>	(Yarnell <i>et al.</i> 2007)
	Wetlands	Pre- and post-fire	<i>Saccostomus campestris</i>	(MacFadyen <i>et al.</i> 2012)
			<i>Saccostomus campestris</i>	(Yarnell <i>et al.</i> 2007)
			<i>Steatomys pratensis</i>	(Yarnell <i>et al.</i> 2007)
			<i>Lemniscomys barbarus</i>	(Attuquayefio and Wuver 2003)
Asia	Forest	Post-fire	<i>Lemniscomys striatus</i>	(Attuquayefio and Wuver 2003)
			<i>Tatera kempfi</i>	(Attuquayefio and Wuver 2003)
			<i>Apodemus agrarius</i>	(Lee <i>et al.</i> 2012)
Australia	Forest	Chronosequence	<i>Apodemus peninsulae</i>	(Lee <i>et al.</i> 2012)
			<i>Myodes regulus</i>	(Lee <i>et al.</i> 2012)
			<i>Antechinus minimus</i>	(Wilson <i>et al.</i> 2001)
		Post-fire	<i>Gymnobelideus leadbeateri</i>	(van der Ree and Loyn 2002)
			<i>Petauroides volans</i>	(van der Ree and Loyn 2002)
			<i>Pseudocheirus occidentalis</i>	(Wayne <i>et al.</i> 2006)
			<i>Pseudomys apodemoides</i>	(Di Stefano <i>et al.</i> 2011)
			<i>Pseudomys shortridgei</i>	(Di Stefano <i>et al.</i> 2011)
			<i>Trichosurus caninus</i>	(van der Ree and Loyn 2002)
<i>Antechinus agilis</i>	(Banks <i>et al.</i> 2011)			
<i>Phascolarctos cinereus</i>	(Lunney <i>et al.</i> 2004)			
<i>Rattus fuscipes</i>	(Banks <i>et al.</i> 2011)			

Continent	Vegetation type	Experimental design	Species	Reference		
Australia (Cont.)	Forest	Pre- and post-fire	<i>Antechinus agilis</i>	(Penn <i>et al.</i> 2003)		
			<i>Antechinus swainsonii</i>	(Green and Sanecki 2006)		
			<i>Bettongia gaimardi</i>	(Penn <i>et al.</i> 2003)		
			<i>Bettongia tropica</i>	(Johnson 1995)		
			<i>Mastacomys fuscus</i>	(Vernes 2000)		
			<i>Pseudocheirus peregrinus</i>	(Green and Sanecki 2006)		
			<i>Rattus fuscipes</i>	(Russell <i>et al.</i> 2003)		
			<i>Rattus fuscipes</i>	(Green and Sanecki 2006)		
			<i>Rattus fuscipes</i>	(Penn <i>et al.</i> 2003)		
			<i>Trichosurus cunninghami</i>	(Banks <i>et al.</i> 2011)		
			Grassland	Post-fire	<i>Dasyercus cristicauda</i>	(Letnic and Dickman 2005)
					<i>Ningai ridei</i>	(Letnic and Dickman 2005)
					<i>Notomys alexis</i>	(Letnic and Dickman 2005)
					<i>Pseudomys desertor</i>	(Letnic and Dickman 2005)
					<i>Pseudomys hermannsburgensis</i>	(Letnic and Dickman 2005)
	<i>Sminthopsis hirtipes</i>	(Letnic and Dickman 2005)				
	<i>Sminthopsis youngsoni</i>	(Letnic and Dickman 2005)				
	Pre- and post-fire	<i>Dasyercus cristicauda</i>			(Letnic 2003)	
		<i>Dasyercus cristicauda</i>			(Letnic <i>et al.</i> 2005)	
		<i>Mus musculus</i>			(Southgate and Masters 1996)	
		<i>Ningai ridei</i>			(Letnic <i>et al.</i> 2005)	
		<i>Notomys alexis</i>			(Letnic 2003)	
		<i>Notomys alexis</i>			(Letnic <i>et al.</i> 2005)	
		<i>Notomys alexis</i>			(Southgate and Masters 1996)	
		<i>Pseudomys desertor</i>			(Letnic 2003)	
		<i>Pseudomys desertor</i>	(Letnic <i>et al.</i> 2005)			
		<i>Pseudomys hermannsburgensis</i>	(Letnic 2003)			
		<i>Pseudomys hermannsburgensis</i>	(Letnic <i>et al.</i> 2005)			
		<i>Pseudomys hermannsburgensis</i>	(Southgate and Masters 1996)			
		<i>Sminthopsis youngsoni</i>	(Letnic 2003)			
<i>Sminthopsis youngsoni</i>		(Letnic <i>et al.</i> 2005)				
Heath		Post-fire	<i>Cercartetus concinnus</i>	(Kelly <i>et al.</i> 2010)		
	<i>Mus domesticus</i>		(Kelly <i>et al.</i> 2010)			
	<i>Ningai ridei</i>		(Kelly <i>et al.</i> 2010)			

Continent	Vegetation type	Experimental design	Species	Reference		
Australia (Cont.)	Heath	Post-fire	<i>Sminthopsis murina</i>	(Kelly <i>et al.</i> 2010)		
			<i>Sminthopsis murina</i>	(Monamy and Fox 2005)		
			Savannah	Post-fire	<i>Antechinus bellus</i>	(Woinarski <i>et al.</i> 2004)
					<i>Dasyurus hallucatus</i>	(Woinarski <i>et al.</i> 2004)
					<i>Isoodon macrourus</i>	(Woinarski <i>et al.</i> 2004)
					<i>Leggadina lakedownensis</i>	(Legge <i>et al.</i> 2008)
					<i>Mesembriomys gouldii</i>	(Woinarski <i>et al.</i> 2004)
					<i>Planigale maculata</i>	(Legge <i>et al.</i> 2008)
					<i>Pseudomys delicatulus</i>	(Kutt and Woinarski 2007)
					<i>Pseudomys delicatulus</i>	(Legge <i>et al.</i> 2008)
	<i>Pseudomys desertor</i>	(Kutt and Woinarski 2007)				
	<i>Pseudomys nanus</i>	(Legge <i>et al.</i> 2008)				
	Pre- and post-fire		<i>Rattus tunneyi</i>	(Legge <i>et al.</i> 2008)		
			<i>Rattus tunneyi</i>	(Woinarski <i>et al.</i> 2004)		
			<i>Trichosurus vulpecula</i>	(Woinarski <i>et al.</i> 2004)		
			<i>Antechinus bellus</i>	(Corbett <i>et al.</i> 2003)		
			<i>Conilurus pencillatus</i>	(Firth <i>et al.</i> 2010)		
			<i>Dasyurus hallucatus</i>	(Corbett <i>et al.</i> 2003)		
			<i>Isoodon macrourus</i>	(Corbett <i>et al.</i> 2003)		
			<i>Isoodon macrourus</i>	(Pardon <i>et al.</i> 2003)		
<i>Melomys burtoni</i>			(Corbett <i>et al.</i> 2003)			
<i>Rattus colletti</i>			(Corbett <i>et al.</i> 2003)			
<i>Rattus tunneyi</i>	(Corbett <i>et al.</i> 2003)					
<i>Trichosurus vulpecula</i>	(Corbett <i>et al.</i> 2003)					
<i>Trichosurus vulpecula</i>	(Isaac <i>et al.</i> 2008)					
Europe	Heath	Pre- and post-fire	<i>Apodemus sylvaticus</i>	(Monimeau <i>et al.</i> 2002)		
North America	Forest	Chronosequence	<i>Clethrionomys gapperi</i>	(Simon <i>et al.</i> 2002)		
			<i>Microtus pennsylvanicus</i>	(Simon <i>et al.</i> 2002)		
			<i>Sorex cinereus</i>	(Simon <i>et al.</i> 2002)		
	Post-fire		<i>Blarina brevicauda</i>	(Greenberg <i>et al.</i> 2007)		
			<i>Blarina brevicauda</i>	(Kirkland <i>et al.</i> 1996)		
			<i>Castor canadensis</i>	(Hood <i>et al.</i> 2007)		
			<i>Clethrionomys gapperi</i>	(Kirkland <i>et al.</i> 1996)		
<i>Clethrionomys gapperi</i>	(Zwolak and Foresman 2007)					

Continent	Vegetation type	Experimental design	Species	Reference			
North America (Cont.)	Forest	Post-fire	<i>Glaucomys sabrinus</i>	(Zwolak and Foresman 2007)			
			<i>Microtus pennsylvanicus</i>	(Kirkland <i>et al.</i> 1996)			
			<i>Microtus pinetorum</i>	(Kirkland <i>et al.</i> 1996)			
			<i>Neotoma cinerea</i>	(Zwolak and Foresman 2007)			
			<i>Peromyscus leucopus</i>	(Kirkland <i>et al.</i> 1996)			
			<i>Peromyscus maniculatus</i>	(Zwolak and Foresman 2007)			
			<i>Sorex cinereus</i>	(Zwolak and Foresman 2007)			
			<i>Sorex fontinalis</i>	(Kirkland <i>et al.</i> 1996)			
			<i>Sorex fumeus</i>	(Greenberg <i>et al.</i> 2007)			
			<i>Sorex fumeus</i>	(Kirkland <i>et al.</i> 1996)			
			<i>Sorex hoyi</i>	(Greenberg <i>et al.</i> 2007)			
			<i>Sorex hoyi</i>	(Kirkland <i>et al.</i> 1996)			
			<i>Sorex hoyi</i>	(Zwolak and Foresman 2007)			
			<i>Sorex longirostris</i>	(Greenberg <i>et al.</i> 2007)			
			<i>Sorex monticolus</i>	(Zwolak and Foresman 2007)			
			<i>Sorex vagrans</i>	(Zwolak and Foresman 2007)			
			<i>Tamias amoenus</i>	(Zwolak and Foresman 2007)			
			Pre- and post-fire			<i>Blarina brevicauda</i>	(Ford <i>et al.</i> 1999)
						<i>Clethrionomys gapperi</i>	(Ford <i>et al.</i> 1999)
						<i>Glaucomys volans</i>	(Greenberg <i>et al.</i> 2006)
						<i>Microtus mexicanus</i>	(Kyle and Block 2000)
	<i>Microtus pinetorum</i>	(Ford <i>et al.</i> 1999)					
	<i>Microtus pinetorum</i>	(Greenberg <i>et al.</i> 2006)					
	<i>Napaeozapus insignis</i>	(Ford <i>et al.</i> 1999)					
	<i>Neotamias speciosus</i>	(Meyer <i>et al.</i> 2007)					
	<i>Neotamias speciosus</i>	(Monroe and Converse 2006)					
	<i>Neotoma floridana</i>	(Greenberg <i>et al.</i> 2006)					
	<i>Neotoma mexicana</i>	(Kyle and Block 2000)					
	<i>Ochrotomys nuttalli</i>	(Ford <i>et al.</i> 1999)					
				(Greenberg <i>et al.</i> 2006)			
				<i>Perognathus flavus</i>	(Kyle and Block 2000)		
				<i>Peromyscus boylii</i>	(Amacher <i>et al.</i> 2008)		
				<i>Peromyscus leucopus</i>	(Ford <i>et al.</i> 1999)		
			<i>Peromyscus leucopus</i>	(Greenberg <i>et al.</i> 2006)			

Continent	Vegetation type	Experimental design	Species	Reference	
North America (Cont.)	Forest	Pre- and post-fire	<i>Peromyscus maniculatus</i>	(Converse <i>et al.</i> 2006)	
			<i>Peromyscus maniculatus</i>	(Ford <i>et al.</i> 1999)	
			<i>Peromyscus maniculatus</i>	(Kyle and Block 2000)	
			<i>Peromyscus maniculatus</i>	(Monroe and Converse 2006)	
			<i>Peromyscus maniculatus</i>	(Zwolak and Foresman 2008)	
			<i>Peromyscus maniculatus</i>	(Amacher <i>et al.</i> 2008)	
			<i>Sigmodon hispidus</i>	(Greenberg <i>et al.</i> 2006)	
			<i>Sorex cinereus</i>	(Ford <i>et al.</i> 1999)	
			<i>Sorex fumeus</i>	(Ford <i>et al.</i> 1999)	
			<i>Sorex hoyi</i>	(Ford <i>et al.</i> 1999)	
			<i>Sorex longirostris</i>	(Matthews <i>et al.</i> 2009)	
			<i>Sorex palustris</i>	(Ford <i>et al.</i> 1999)	
			<i>Spermophilus beecheyi</i>	(Amacher <i>et al.</i> 2008)	
			<i>Spermophilus lateralis</i>	(Kyle and Block 2000)	
			<i>Tamias cinereicollis</i>	(Converse <i>et al.</i> 2006)	
			<i>Tamias cinereicollis</i>	(Kyle and Block 2000)	
			<i>Tamias minimus</i>	(Converse <i>et al.</i> 2006)	
			<i>Tamias quadrimaculatus</i>	(Amacher <i>et al.</i> 2008)	
			<i>Tamias striatus</i>	(Greenberg <i>et al.</i> 2006)	
	<i>Tamiasciurus hudsonicus</i>	(Russell <i>et al.</i> 2010)			
	<i>Tamiasciurus hudsonicus</i> ssp. <i>grahamensis</i> .	(Koprowski <i>et al.</i> 2006)			
	Grassland	Post-fire		<i>Ammospermophilus leucurus</i>	(Esque <i>et al.</i> 2003)
				<i>Lepus californicus</i>	(Esque <i>et al.</i> 2003)
				<i>Spermophilus variegatus</i>	(Esque <i>et al.</i> 2003)
				<i>Sylvilagus auduboni</i>	(Esque <i>et al.</i> 2003)
		Pre- and post-fire		<i>Baiomys taylori</i>	(Litt and Steidl 2011)
				<i>Chaetodipus baileyi</i>	(Fitzgerald <i>et al.</i> 2001)
				<i>Chaetodipus hispidus</i>	(Litt and Steidl 2011)
				<i>Chaetodipus pencilatus</i>	(Litt and Steidl 2011)
<i>Dipodomys merriami</i>				(Fitzgerald <i>et al.</i> 2001)	
<i>Dipodomys merriami</i>				(Litt and Steidl 2011)	
<i>Onychomys leucogaster</i>	(Litt and Steidl 2011)				
<i>Perognathus flavus</i>	(Litt and Steidl 2011)				
<i>Peromyscus leucopus</i>	(Fitzgerald <i>et al.</i> 2001)				

Continent	Vegetation type	Experimental design	Species	Reference
North America (Cont.)	Grassland	Pre- and post-fire	<i>Peromyscus maniculatus</i>	(Fitzgerald <i>et al.</i> 2001)
			<i>Peromyscus maniculatus</i>	(Olson <i>et al.</i> 2003)
			<i>Reithrodontomys fulvescens</i>	(Litt and Steidl 2011)
			<i>Reithrodontomys megalotis</i>	(Fitzgerald <i>et al.</i> 2001)
			<i>Sigmodon arizonae</i>	(Litt and Steidl 2011)
	Heath	Post-fire	<i>Sigmodon ochrognathus</i>	(Litt and Steidl 2011)
			<i>Chaetodipus californicus</i>	(Schwilk and Keeley 1998)
			<i>Dipodomys agilis</i>	(Schwilk and Keeley 1998)
			<i>Neotoma lepida</i>	(Schwilk and Keeley 1998)
			<i>Peromyscus boylii</i>	(Schwilk and Keeley 1998)
South America	Forest	Pre- and post-fire	<i>Peromyscus maniculatus</i>	(Schwilk and Keeley 1998)
			<i>Akodon cursor</i>	(de Souza Lima Figueiredo and dos Santos Fernandez 2004)
	Savannah	Chronosequence	<i>Oecomys concolor</i>	(de Souza Lima Figueiredo and dos Santos Fernandez 2004)
			<i>Bolomys lasiurus</i>	(Briani <i>et al.</i> 2004)
			<i>Calomys tener</i>	(Briani <i>et al.</i> 2004)
		Post-fire	<i>Gracilinanus agilis</i>	(Briani <i>et al.</i> 2004)
			<i>Oryzomys subflavus</i>	(Briani <i>et al.</i> 2004)
			<i>Euphractus sexcinctus</i>	(Prada and Marinho 2004)
		Pre- and post-fire	<i>Bolomys lasiurus</i>	(Ghizoni <i>et al.</i> 2005)
			<i>Bolomys lasiurus</i>	(Layme <i>et al.</i> 2004)
			<i>Bolomys lasiurus</i>	(Vieira 1999)
			<i>Calomys callosus</i>	(Henriques <i>et al.</i> 2000)
			<i>Calomys callosus</i>	(Vieira 1999)
			<i>Calomys tener</i>	(Henriques <i>et al.</i> 2000)
			<i>Calomys tener</i>	(Vieira 1999)
<i>Oryzomys subflavus</i>	(Henriques <i>et al.</i> 2000)			
<i>Oryzomys subflavus</i>	(Vieira 1999)			
<i>Thalpomys cerradensis</i>	(Vieira 1999)			
<i>Thylamys velutinus</i>	(Vieira 1999)			

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