Figure 1: Flow chart for bridge works accounting for bats

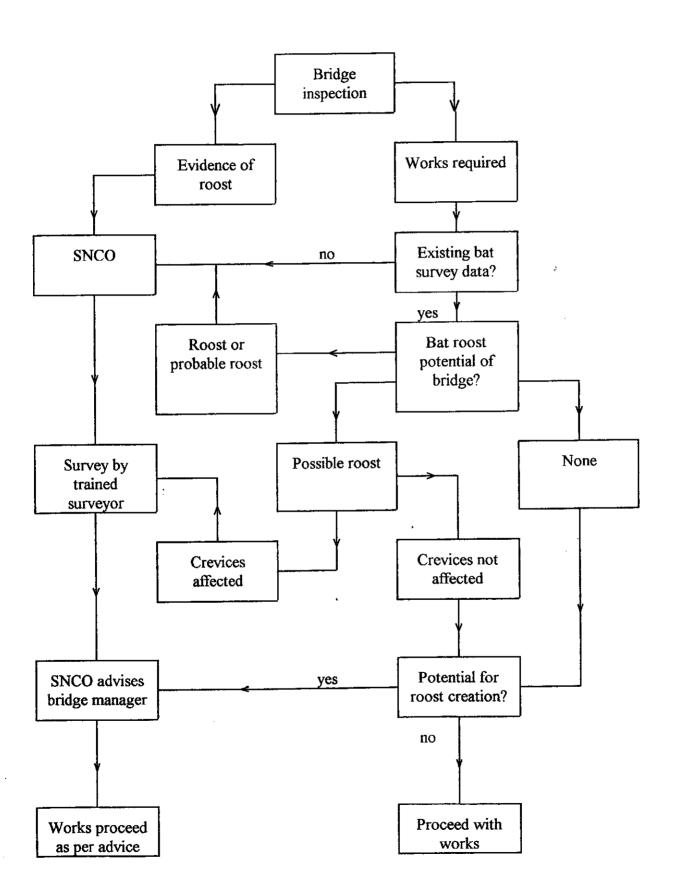
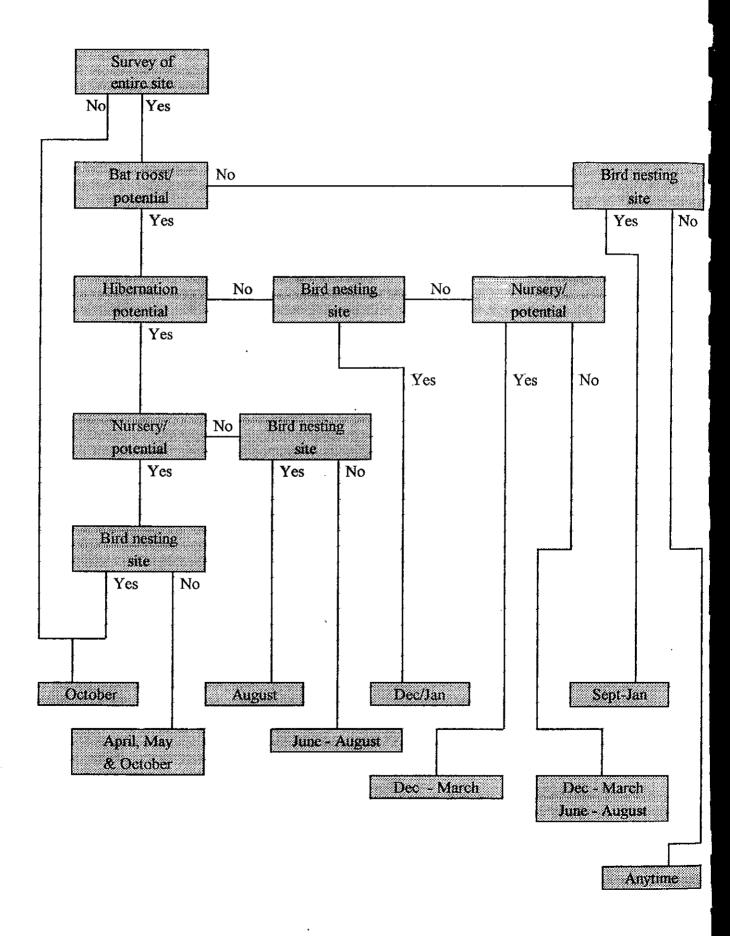


Figure 2: Flow chart to determine timing of works



5 Sources of information and contacts

These guidelines are an appendix to a report produced by the Conservation of Bats in Bridges Project on the survey and conservation of bats in bridges in Cumbria. This report summarises much of the current knowledge on this subject and should be consulted for further information on surveying and conservation techniques.

The statutory nature conservation organisations should be consulted over any works that may affect a bat roost or possible bat roost, an active bird's nest, or an otter holt. They can be contacted via their headquarters (see below) or local team offices (see telephone directory).

English Nature Northminster House, Peterborough. PE1 1UA Tel. 01733 455000

Scottish Natural Heritage 12 Hope Terrace, Edinburgh. EH9 2AS Tel. 0131 4474784

Countryside Council for Wales Plas Penrhos, Ffordd Penrhos, Bangor, Gwynedd. LL57 2LQ. Tel. 01248 370444

Department of the Environment for Northern Ireland - Countryside and Wildlife Branch Commonwealth House, 35 Castle Street, Belfast. BT1 1GU
Tel. 01232 251477

The Bat Conservation Trust can provide advice on all aspects of bat conservation:

The Bat Conservation Trust 15 Cloisters House, 8 Battersea Park Road, London. SW8 4BG. Tel. 0171 6272629

APPENDIX II

- 1. Record form used for COBIB Project survey
- 2. Revised record form

BATS IN BRIDGES - RECORD FORMS

BRIDGE NAM	ΪΕ			GRID	REFEREN	CE	
,,				ALTIT			
LOCATION					NUMBER		
TOT COLINT	~~				RCOURSE WAYS ARE		· ·
VICE-COUNT	Υ			1			
OWNER					TAINED BY		
SURVEYOR				DATE	OF SURVI	EY	
ACTION FOR							
SURVEY BEFO					الد د ···		
RETAIN CREV				l if crevice	ıs affectea)		
PROCEED WIT	TH WORKS	(Survey not	t required)	***			
					SATEN	HADDOVE	- confide
RECON	/MENDATION	ONS FOR	CONSER	₹VATIO	N/POIEN	ITIAL IMPROVE	MENI
g N							
							è
			·				
BRIDGE DETA	AILS (Circle «	choice)					
TVDE.	Road		Rail		Tra	ck Fo	otpath
TYPE: OVER:	Hoad Large river	r (~ 3 m)		ver (1 - 3		eam (< 1 m)	Olpaii.
OVLI1.	Road	(~ 0,	Railway		Car		her
			•			Olatono	Olean
SPAN:		Wood	Steel	Brick Brick	Limestone Limestone		
ABUTMENT:	Concrete	Wood	Steel	Brick	Littlestoti	e Sanusiono	Jiaie
HEIGHT OF A	RCH:			SPAN			
WIDTH (ROAD		_		N° of	ARCHES:		
BAT DETAILS	(Circle choic	;e) *	e de engled de gr i gidis		and the second		
POTENTIAL:		0	2		4	5	
	; 2 = crevices	s possibly o	f use to ba	its; 4 = id	leal crevices	; 5 = evidence of b	ats]
EVIDENCE (CI			N. S. A.				A Secretary Secretary
	The Control of the State of the		AINING			BATS AUDIBL	
	DROPPIN	GO OI	Allviivo	DAIG) VIOIDELE	DATO ACCIC	_L _
DETAIL C		to the same to the			 *		***************************************
DETAILS:	; 				≟ X		

PERCEIVED THREATS		-		
			·	
ALIE DECORIDEION				
DIAGRAM AND DESCRIPTION				
	,		•	
i				
				1
			V.	
			· · · · · · · · · · · · · · · · · · ·	
			•	
•			,	
			•	•
·				
			•	
				•
			The state of the s	
HABITAT	P-i-d-c		And the second s	
10 m	Bridge			
, to			← Stream, road, etc.	
+	100 m	n →	•	
Broadleaved Trees/Woodland	D			
Conifer Trees/Woodland	□ D			
ScrubImproved grassland	□ D □ D			
Unimproved grassland		Bog/Wet G	Ground	D
Fast-flowing water	<u> </u>		ing water/ponds	
Tick occurrence as applicable - and circle D whe	əre dominant.			
OTHER NON-BAT SPECIES				
SPECIES EVIDE	ENCE/DETAIL	<u>LS</u>		
·				

A STEPATSUNBRIDGES	HARECOAD FORM					
BRIDGE NAME	GRID REFERENCE ALTITUDE					
LOCATION	ROAD NUMBER WATERCOURSE					
VICE-COUNTY	HIGHWAYS AREA					
OWNER	MAINTAINED BY					
SURVEYOR	DATE OF SURVEY					
ACTION FOR ENGINEERS (Tick appropriate box) SURVEY BEFORE WORKS (Contact English Nature) RETAIN CREVICES ON DIAGRAM (Contact EN if crevices affected) PROCEED WITH WORKS (Survey not required) AVOID WORKS DURING BIRD NESTING SEASON						
SPECIALIST SURVEY RECOMMENDATIONS FOR CONSERVATION / POTENTIAL IMPROVEMENT						
FIBRESCOPE LADDER						
OVER: Watercourse Dry watercourse [railway Track Footpath Track & footpath Other					
Concrete Wood Steel Brick Lim SPAN:	nestn Sandstn Slate Granite Greenstn Grit Other					
HEIGHT OF ARCH: WIDTH (ROAD WIDTH):	SPAN:					
BAUDETAILS (CITCLE Choice)						
POTENTIAL: 0 1 [0 = no potential; 1 = crevices	2 3 s possibly of use to bats; 2 = ideal crevices; 3 = evidence of bats]					
EVIDENCE (Circle choice) DROPPINGS STAINING BATS VISIBLE BATS AUDIBLE						
DETAILS:						

PERCEIVED THREATS					
FERIOLITED HIREDIO					
DIAGRAM AND DESCRIPTION					
ł					
			*		
			Γ -		•
			10 m 10 m		
				7	
I			Bridge	}	
i					1
I			19 m		 100 г
			10m	A Samuel S.	100 1
				_	ĺ
					ļ
				$\longrightarrow^{\downarrow}$	/
			100 m Record the habitat along both I	inear f	ioatur <u>e</u> s
HABITAT	. TÜMEY	Br. Co	Indicate North on the diagram and lai	abel eac	ch linea
			feature as watercourse, road, diuse	∌d raiiw	/ау, ек
Broadleaved Trees/Woodland		Đ	Arable	. 🗖	D
Conifer Trees/Woodland		D	Hedges		D
Scrub		D	Walls	. 🗖	D
Improved grassland	_	D	Buildings		D
Unimproved grasslandFast-flowing water		D	Bog/Wet Ground		D
Tick occurrence as applicable - and circle D where de	Ominan	D	Slow-flowing water/ponds	. 🗖	D
	ОПІнан	t.			
OTHER NON-BAT SPECIES					
SPECIES EVIDE	ENCE/I	DETA	ILS		
					