

## PAPERS (1-599) OF THE INDEPENDENT SCIENTIFIC GROUP ON CATTLE TB

A few papers were originally not given numbers by the Secretariat staff of the time. These have now been numbered as part of a NN series from NN1 (after paper 61) to NN11 (before paper 296).

NO	TITLE OF PAPER
	<b>1998</b>
1	Note of an informal meeting held on 28 <sup>th</sup> January 1998
2	Defining treatment areas within the experiment
3	MAFF background paper: methods of catching badgers
4	MAFF background paper: lactating sows
5	Culling experiment design: outline framework & issues
6	Cost of TB policy and cost of culling experiment
7	Estimated annual costs of Krebs recommendations
8	Areas identified as being of special interest
9	Statistics on the issue of licences under the Protection of Badgers Act 1992
10	Minutes of 1 <sup>st</sup> Group Meeting on 24 <sup>th</sup> February 1998
11	Defining the boundaries of the experimental areas
12	Outline protocol for badger culling operations
13	Data requirements for the culling operations
14	Data requirements for the culling trial
14A	Comments on the data requirements framework
15	Research on local variations in risk
16	Outline on road traffic accident survey
17	Note on agricultural economists
18	Revised summary of R & D programme
19	Minutes of 2 <sup>nd</sup> Group Meeting on 23 <sup>rd</sup> March 1998
20	Information on two identified triplets
21	Field protocol for survey procedures & badger culling
22	Report to Group from Steering Group meeting on 7th April - Epidemiological Questionnaire
23	WHO Global Programme for Vaccines: what WHO groups exist on TB vaccines?
24	Licences under The Protection of Badgers Act, issued by English Nature
25	Consultation exercise summary: organisations positions
26	Collateral research activities: ancillary research projects to maximise the information gathered in the course of the experiment
27	The Integrated Administration and Control System (IACS). Current Position
28	Minutes of 3 <sup>rd</sup> Group Meeting on 22 <sup>nd</sup> April 1998
29	Note on a meeting between Professor Bourne and members of the support team
30	Defining boundaries for the culling experiment
31	Protocol for surveying and removing badgers
32	Timing of allocation of treatments
33	Epidemiological Risk Questionnaire
34	Seasonality of TB infection in cattle
35	Estimation of the prevalence of TB infection of badgers outside the experimental areas
36	TB breakdown statistics
37	Badger field signs: SVS Wildlife Unit - survey Map plus trap positions
38	Areas to be surveyed in response to herd breakdowns
39	Effect of mesh size on the efficiency and humaneness of cage trapping
40	Minutes of 4th Group Meeting on 19 <sup>th</sup> May 1998
41	Meeting with Professor McInerney on 1 <sup>st</sup> June 1998
42	Protocol for the selection of treatment areas
43	Culling trial - measures of infection, entry to the trial and testing intervals
44	Cost benefit analysis – Professor McInerney, June 1998
45	Auditing the culling trial
46	Key questions to be addressed by the field experiment on badger culling and related research commissioned by MAFF

47	Criteria for assessing the significance of alternative vectors of TB
48	Revised boundaries protocol
49	Map showing TB testing frequency by parish
50	Developments affecting the culling experiment
51	Minutes of 5 <sup>th</sup> Group Meeting on 11 <sup>th</sup> June 1998
52	Fingerprinting of <i>M. bovis</i> . Meeting at Tolworth on 17 <sup>th</sup> June 1998
52A	Fingerprinting of <i>M. bovis</i> . Meeting at Tolworth on 17 <sup>th</sup> June 1998. Replaces paper 52
53	Report on Professor Bourne's meetings with Dr Elaine King (NFBG) and Mr Colin Booty (RSPCA) on 15 <sup>th</sup> June 1998
54	An assessment of the potential impact of the large scale removal of badgers
55	Taking forward the Krebs Report. First report to Ministers
56	TB in badgers - Proposals for a TB strategy. Minute of 20 <sup>th</sup> May 1998
57	Minutes of 6 <sup>th</sup> Group Meeting on 29 <sup>th</sup> June 1998
58	MAFF Animal Health and Welfare research requirements 1999-2000
59	Procedures for appraising TB research proposals.
60	NFBG Press releases- as released on 1 <sup>st</sup> July 1998
61	The effects of delaying the start of a badger removal operation
NN1	Paper circulated by Dr Donnelly to Group on 28 <sup>th</sup> July 1998: testing regime table
62	Minutes of 7 <sup>th</sup> Group Meeting on 16 <sup>th</sup> July 1998
63	Note of Professor Bourne's meeting with English Nature on 20 <sup>th</sup> July 1998
64	Note of Professor Bourne's meeting with the National Trust on 14 <sup>th</sup> July 1998
65	Note of ad hoc meeting of the Group on 28 <sup>th</sup> July 1998
66	Controls for analyses to determine correlatives of local variation risk - position paper
67	Randomised Badger Culling Trial - key data
68	Progress Report on the Implementation of the Initial Two Triplets, 10 <sup>th</sup> September 1998
69	External audit of the Culling Trial (MAFF paper of 10 <sup>th</sup> September)
70	Non- trial data on badgers and other wildlife - MAFF position paper
71	Research proposals under MAFF's Research Requirements document - summary listing
72	The need for continuous trapping - paper by Dr Woodroffe
73	Database requirements (badger database) - MAFF paper of 15 <sup>th</sup> September 1998
74	Note of 15 <sup>th</sup> September 1998 meeting with farming organisations
75	Minutes of 8 <sup>th</sup> Group Meeting on 16 <sup>th</sup> September 1998
76	Draft SOP 8: delineation of badger social group territories
77	Badger Culling Field Trial: opportunities for related research projects
78	Progress report on trial implementation
79	Selection of control herds within trial areas
80	TB in cattle and badgers: public relations strategy
81	Questions that might be addressed by retrospective analyses of TB herd testing data
82	Minutes of 9 <sup>th</sup> Group Meeting on 12 <sup>th</sup> October 1998
82A	Action points of paper 82
83	Draft SOP 5: surveying for badger activity
84	Spoligotyping – draft SOP 13 to detect and type <i>M. bovis</i>
85	Draft SOP 6: cage trapping of badgers and submission of carcasses for post-mortem
86	Culture SOPs
87	Draft SOP 10: heart blood sampling of badger carcass for research at VLA
88	Draft SOP 11: post-mortem examination of badgers
89	RTA Survey - draft field service instructions
90	Post randomisation letters
91	Proposed trial by Bluebell Sett Clinical Studies Group
91A	Proposal for a trace element study
92	TB cattle trends
93	Progress report on trial implementation
94	CSL questions arising from the examination of survey data in the Devon/ Cornwall triplet
95	TB Research Programme 1998/1999
96	Progress Report on Proposals for 1999/2000 onwards
97	SOP 3: Wildlife Unit - delineation of trial area boundaries
98	Annex to main TB99 questionnaire
98A	Additional questionnaire on farm history for implementation on surveyed farms in proactive

	triplets
99	Protocol for selection of controls within trial areas
100	SOP 7: randomised treatment allocation
101	Culling Trial - new triplets
102	Press Notice: session 1997/1998- badgers and bovine tuberculosis
103	Number not used – no paper
104	Submission form: farm management risk factors for bovine TB
105	Research proposal from CSL: ecological consequences
106	Research proposal from VLA: multivariate analysis of risk factors
107	Research proposal: multivariate analysis of risk factors
108	Research proposal from VLA: spatial analysis using GIS
109	Research proposal from CSL: integrated modelling of <i>M. bovis</i>
110	Research proposal from Bristol University: understanding the route of TB transmission
111	Research proposal: quantification of the risk of transmission of bovine tuberculosis
112	Research proposal from Warwick University: ecological correlates of TB incidence
113	Research proposal from Oxford University: the risk to cattle from <i>M Bovis</i> infection
114	Research proposal from CSL: the risk to cattle from wildlife species other than badgers
115	Research proposal from VLA: detection and enumeration of <i>M. bovis</i>
116	Research proposal from Bristol University: novel methods of estimating badger numbers
117	Research proposal from CSL: to develop innovative methods to estimate badger population density
118	Research Proposal from CSL: an investigation into the perturbation effects of culling
119	Minutes of 10 <sup>th</sup> Group Meeting on 19 <sup>th</sup> November 1998
120	Minutes of 11 <sup>th</sup> Group Meeting on 3 <sup>rd</sup> December 1998
121	Progress report on trial implementation
122	Trial surveying issues – 14 <sup>th</sup> December 1998
123	Timeline for trial implementation
124	External audit of the trial - progress report
125	Procedures for notification of confirmed TB breakdowns - key issues
126	Bern recommendations/ NFBG news release/ NFBG submission to Bern Convention
127	Note of the Meeting Between MAFF and Cresswell Associates, 26 <sup>th</sup> November 1998
	<b>1999</b>
128	External audit of the Culling Trial - discussion with Warren Cresswell
129	Feedback from the first two triplets
130	Correspondence tabled at 13 <sup>th</sup> Group Meeting
131	Agriculture Select Committee membership
132	Number not used – no paper
133	Analysis of past bovine tuberculosis data
134	Martin Hancox letters
135	Ecological consequences of removing badgers from an ecosystem
135A	Ecological consequences of removing badgers from an ecosystem (briefing notes on the inclusion of reactive sites in the monitoring of the ecological effects of badger removal)
136	Epidemiological questionnaire: options for deployment from mid-February
137	Minutes of 12 <sup>th</sup> Group Meeting on 16 <sup>th</sup> December 1998
138	Synopsis of papers prepared by CSL
138A	Visit to the Putford proactive treatment area
138B	Report on the capture of badgers at Putford
139	Woodchester Park badger database
140	Meeting with the NFBG on 9 <sup>th</sup> December 1998
141	Confidentiality paragraph
142	Multivariate analysis of risk factors
143	The use of scientific advice in policy making
144	Correspondence with Dr Helen Fullerton: trace element deficiency and tuberculosis
145	TB99 - epidemiological questionnaire: finalised version
146	Minutes of 13 <sup>th</sup> Group Meeting on 19 <sup>th</sup> January 1999
147	Meeting with the Countryside Council for Wales on 27 <sup>th</sup> January 1999
148	Meeting with the RSPB on 25 <sup>th</sup> January 1999
149	Meeting with the BVA on 4 <sup>th</sup> February 1999

150	Berkeley Open Meeting on 25 January 1999
151	Correspondence with Dr Helen Fullerton
152	Correspondence from the NFBG
153	Selection of the next triplet
154	Action outside the trial areas: Ministers request for advice on the Bristol University proposal
155	Staff de-briefing, 2 February 1999: key points
156	Review of pre-visit letter to occupiers of land in new triplets
157	TB research & development: stocktake and forward look
158	TB99 database specifications
159	TB trial database specifications
160	Position report of the ISG spatial epidemiologist
161	Ministers Correspondence: Mr Rooker to David Heathcoat-Amory about Putford badgers
NN2	<i>M.bovis</i> in Humans in Scotland
NN3	Devon / Cornwall potential trial areas
NN4	Minute on notification of TB herd breakdowns in reactive treatment areas
NN5	Draft SOP - TB case & control questionnaires
162	Draft SOP 17; development, ratification and maintenance of SOPs
163	Election Guidance
164	Minutes of 14 <sup>th</sup> Group Meeting on 17 <sup>th</sup> February 1999
165	Data release - openness and access to information: background perspective
166	Triplet operational issues: deciding when to stop culling in proactive and reactive areas
167	Checking for illegal activity
168	Finalisation of TB99 questionnaire / National launch / review timetable
169	R & D - other wildlife studies proposal - the risk to cattle from <i>M. bovis</i> infection in wildlife species other than badgers
170	Report on R & D announcements
171	Resources for the trial post mortem protocol
172	Incidence of TB: whole herd slaughter
173	Action outside trial areas
174	Indicative results from Putford cull
175	Draft SOP 2: selection of triplets
176	Timetable for next triplets
177	TB99 for use on control farms
178	Report on leg cuff trial
179	Recommendations received from the countryside council for Wales
180	Vaccine Programme Manager (Dr Jo Colston) Terms of Reference
181	Soil association paper
182	Draft SOP 9: humane dispatch of badgers
183	Preparation for trial action in May 1999
184	Putford results- supplementary information
185	Draft SOP 8: delineation of badger social group territories
186	Randomised Badger Culling Trial: key decision points
187	Minutes of 15 <sup>th</sup> Group Meeting on 17 <sup>th</sup> March 1999
188	Randomisation of triplet A
189	Staff resources
190	Bern convention submission
191	Badgers taken during the Putford cull
192	Research proposal update: the risk to cattle from <i>M. bovis</i> infection in wildlife other than badgers
NN6	Trial data - Meeting of the Group in restricted session on 16 <sup>th</sup> April 1999
193	Pathology of natural bovine tuberculosis in badgers
194	SOP 9: humane dispatch of badgers
195	Minutes of 16 <sup>th</sup> Group Meeting on 20 <sup>th</sup> April 1999
196	Draft framework for Group's Second Report to Ministers
197	Number not used – no paper
198	ISG security measures & indemnity letters
199	RTA survey of badgers - May 1999
200	Welfare of dependent cubs in reactive culling areas - paper by Dr Woodroffe

201	A stopping rule for the trial
202	Trace element study of culled badgers: suggestion of link between selenium and TB status
203	Minutes of 17 <sup>th</sup> Group Meeting on 19 <sup>th</sup> May 1999
204	Lessons learned - reactive culling in Hartland
205	Group's 2 <sup>nd</sup> Report to Ministers - draft
206	Trial area selection - SOP & simulation exercise
207	Cattle pathogenesis - paper prepared by Professor Morrison
208	Trial audit (Cresswell's Letter - 28 May 1999)
209	Economic studies to inform the ISG's work
210	Notes prepared by support staff - 10 June 1999
211	Number not used – no paper
212	Sensitivity analyses for power calculations - paper prepared by Dr Donnelly
213	Putford proactive cull - preliminary analysis of data
214	Data analysis - letter of Professor Bourne - 28 May 1999
215	"Stop the badger cull" leaflet
216	TB breakdowns 1996 - 1998 part 1 (VLA map)
217	TB Breakdowns 1996 - 1998 part 2 (VLA map)
218	Study tour - New Zealand, March 1999
219	Minutes of 18 <sup>th</sup> Group Meeting on 15 <sup>th</sup> June 1999
220	SOP 6: trapping of badgers
221	Kirkwood letter: 30 June 1999 - external audit
222	Note of Meeting between Professor Bourne & the CVO
223	Note of Meeting between Professor Bourne and NFBG – 26 <sup>th</sup> June 1999
224	WLU trial operations update
225	PR update
226	TB99 Sub Group - action plan
227	Professor Harris' letter – confidentiality
228	Invitation to the research workshop
229	Veterinary Record letter - Gallagher/Muirhead
230	Updated TB incidence statistics – 12 <sup>th</sup> July 1999
231	Summary of <i>Farming Today</i> - 7 July 1999
232	Implementation of amendment to EC legislation on tuberculosis testing of cattle within Great Britain
233	Data requests from Members of the ISG
234	Progress report to the Minister of Agriculture, Fisheries & Food: Second Report of the ISG - July 1999
235	TB vaccine research programme - report by Dr J Colston, for 23 <sup>rd</sup> November 1998 to 12 <sup>th</sup> July 1999
236	MDC project: farm management risk factors for bovine TB - final survey material
237	Note of meeting with Professor Donald Broom and Dr Ana Pinto (Cambridge University) on 23 <sup>rd</sup> July 1999
238	Minutes of 19 <sup>th</sup> Group meeting on 14 <sup>th</sup> July 1999
239	Pathogenesis and diagnosis of infections with <i>M.bovis</i> in cattle - paper by Professor Morrison
240	Letter to the Group - ISG Publications
241	Notes of Meeting with Dr Fink
242	Trial progress report of triplets A, B, C, & D
243	Selection of triplet E
244	Molecular genetic analysis of badger social structure: response to CSL - paper by Dr Woodroffe
245	An epidemiological investigation - towards a sustainable policy to control TB in cattle: 1st draft
246	Road traffic accident survey
247	The consultative forum on TB in cattle
248	Proposal for a panel to identify management practices involved in farming cattle to assist in developing a sustainable policy to control bovine TB
249	Number not used – no paper
250	Follow up culling in proactive treatment areas
251	Current staffing position of the WLU

252	Ecological consequences of removing badgers from an ecosystem
253	Committed MAFF TB research
NN7	Professor Harris's letter to CSG
NN8	Application for a research contract with MAFF
254	Minutes of 20 <sup>th</sup> Group Meeting on 14 <sup>th</sup> September 1999
255	Pack of papers from the first meeting of the TB Forum
256	Trial operations - Progress with triplets A,B,C & E
257	Trial operations - triplet selection - map of triplet F to be signed off
258	Trial operations - future follow up culls
259	2 <sup>nd</sup> Report to Ministers - 2nd draft
260	Research - cattle pathogenesis
261	Research - genetic fingerprinting
262	Research - TB research workshop
263	Number not used – no paper
264	Husbandry Panel - advert
265	The consequences of HSE prohibition notice: freezing of badger carcasses
266	CSG 7 - research proposal - the potential of ticks as vectors of <i>M.bovis</i>
267	Responses to observations made by the external auditor
268	Minutes of 21 <sup>st</sup> Group Meeting on 20 <sup>th</sup> October 1999
269	Independent audit of the trial - second interim report from Cresswell Associates
270	New triplet selection - last four triplets
271	Note of Sub-Group meeting – 4 <sup>th</sup> November 1999at IAH, Compton - data handling / 2nd report
272	Research proposals: (a) trial and vaccination of badgers with BCG and (b) trial detection and removal of super excretor badgers
273	Progress report on trial implementation
274	2 <sup>nd</sup> Report to Ministers - version 4
275	Review following the first batch of reactive culls
276	Handling of TB49 forms
277	Bovine tuberculosis: towards a future control strategy
278	Final report of the ISG spatial epidemiologist
279	Evaluation of the daily trapping data from Putford and the East Cornwall triplet
280	Dr Kirkwood's latest interim report
281	Minutes of 22 <sup>nd</sup> Group Meeting on 17 <sup>th</sup> November 1999
282	Research - previous work on TB in badgers
283	Meetings and correspondence - George Richardson
284	Number not used – no paper
285	Enrolment questionnaire
286	Detection and removal of super excretor badgers
287	Convention on the conservation of European wildlife and natural habitats
288	Proposed pilot trial on the use of gamma IFN blood testing to speed up clearance of herd TB infection
289	VLA proposal for inoculation of silage with <i>M. bovis</i>
290	Timeline for field trial management
	<b>2000</b>
291	Triplet update
292	Data flow – paper by Dr Woodroffe
293	Proposed enrolment questionnaire - paper by Dr Woodroffe
294	Minutes of 23 <sup>rd</sup> Group Meeting on 15 <sup>th</sup> December 1999
295	Letter from Chief Scientist to Professor Bourne - TB workshop
NN9	Draft web-site pages
NN10	TB trial enrolment questionnaire
NN11	Monthly statistics on TB incidents in Great Britain
296	Note of Chairman's meeting with the Minister – 28 <sup>th</sup> January 2000
297	Minutes of 24 <sup>th</sup> Group Meeting on 19 <sup>th</sup> January 2000
298	<i>Veterinary Record</i> Paper - Bovine TB: towards a future control strategy
298A	<i>Veterinary Record</i> papers and editorial
298B	<i>Veterinary Record</i> paper (Professor Morrison)
299	Gamma IFN Research

300	<i>M.bovis</i> in infection in cattle with evidence of concurrent exposure to Bovine Viral Diarrhoea Virus
301	Research requirements document 2000-2001
302	TB in deer - paper by CSL
303	The risk to cattle from TB in wildlife other than badgers: update report
304	SOP: status report
305	Laboratory capacity
306	Trial Operations: triplet update
307	Trial Operations: operations in 2000
308	Research: TB vaccines – paper by Professors Bourne & Morrison
309	Letter to John Gallagher - trial detection of <i>M.bovis</i> super excretor badgers
310	Badger perturbation studies
311	MAFF bovine TB trial: enrolment questionnaire
312	Triplets G and H data
313	MAFF TB strategy information leaflets
314	TB and the badger: culling as a method to control a wildlife disease reservoir
315	Number not used – no paper
316	Progress report on trial implementation
317	Revised data for triplet E
318	RTA survey: operational procedures
319	Minutes of 25 <sup>th</sup> Group Meeting on 15 <sup>th</sup> March 2000
320	Analysis of the quality of the TB49 form: report on infection in a herd -summary
321	Request for the release of trial data from the University of York
322	Reverse bait marking procedures
323	“Wildlife conservation research unit”, re: TB in wildlife other than badgers
324	Proposed maintenance teams to replace proactive follow up
325	Veterinary surveillance in England and Wales - consultation document
326	Research requirements document - final draft
327	Perturbation studies - options paper from CSL
328	Perturbation studies - options paper from WILDCRU
329	<i>M. bovis</i> in silage - minute from CSG
330	Research paper - cow-to-cow transmission of a single <i>M bovis</i> strain, Perumaalla, V S et al
331	Research report - SE 0126, CSL
332	Research report - SE 3102, CSL
333	Research report - SE 3104, CSL
334	Research report - SE 3106, CSL
335	TB Forum paper - TB testing frequency
336	TB Forum paper - TB isolation & test protocol
337	TB Forum paper - cattle control measures update
338	Register of ISG papers
339	Minutes of 26 <sup>th</sup> Group Meeting on 19 <sup>th</sup> April 2000
340	Re-survey of Putford
341	Veterinary surveillance strategy
342	Trial update
343	Surveying audit report - draft
344	TB 99 working group report data
345	Audit of the humaneness of badger despatch procedures
346	Minutes of 27 <sup>th</sup> Group Meeting on 17 <sup>th</sup> May 2000
347	Implications of maintenance crew operation on the statistical power of the trial, and manpower implications
348	Progress report on trial implementation – June 2000
349	Towards a sustainable policy to control TB in cattle
350	Clarification of protocols for reactive culling - a discussion document
351	Wildlife unit - Polwhele summary report for trial area C1 (Otterham)
352	Delineation of proactive treatment areas – paper by Dr Woodroffe
353	Modelling approaches - the rôle of cattle - cattle transmission in the persistence and spread of <i>M. bovis</i> in cattle
354	Triplet E- Poulshot proactive post-cull set survey
355	Reactive treatment procedures: delineation of breakdown area and reactive treatment area

356	MAFF Funded TB Research Workshop - 22/23 November 2000
357	Prospective ISG Meeting dates for 2001
358	Protocol for follow-up culling
359	Minutes of 28 <sup>th</sup> Group Meeting on 14 <sup>th</sup> June 2000
360	TB99 report
361	BVDV surveillance of dairy herds within the badger culling trial areas
362	UK / Ireland bilateral meeting : preparing for Bern 2000
363	Progress report on trial implementation – July 2000
364	TB & cattle husbandry: report of the independent husbandry panel - May 2000
365	TB vaccines – report of Dr Colston
366	Trial operations update (triplet F)
367	Final triplet selection
368	Announcement of statistical auditor
369	Public attitude towards badger culling; <i>Veterinary Record</i> article of 12 August 2000 by White and Whiting
370	Badgers and bovine TB: a proactive strategy for the control of bovine TB in badger populations
371	Response to the report of the Independent Husbandry Panel May 2000, MAFF : TB and cattle husbandry
372	MAFF draft response to 1 <sup>st</sup> audit on humane despatch procedures for badgers
373	RTA survey
374	Minutes of 29 <sup>th</sup> Group Meeting on 19 <sup>th</sup> July 2000
375	<i>M bovis</i> report by Professor Bourne
376	Secretary's report: ISG comments
377	Progress report on trial implementation
378	TB99 - modifications of current format
379	TB Research programme
380	Report from Oxford University on project "the risk to cattle from wildlife species other than badgers in areas of high herd breakdown
381	Revised data for Triplet G (Staffordshire/Derbyshire)
382	Bern Convention on the Conservation of European Wildlife and Natural Habitats Report by UK Government
383	Draft memorandum to the Agriculture Select Committee
384	Minutes of 30 <sup>th</sup> Group Meeting on 20 <sup>th</sup> September 2000
385	Progress report on trial implementation
386	Choice of proactive follow-up for January 2001
387	Release of data from TB database
388	ISG report to the statistical auditor
389	Consideration for the need for lung lavage / urine analysis data
390	TB 99: first interim analysis
391	Paper for the Proceedings of the <i>M bovis</i> conference, Cambridge
392	Gamma interferon feasibility study
393	Badger cage traps
394	Duration of pre-baiting and trapping phases of trial operations
395	Delineation of Triplet I
396	Delineation of Triplet J
397	Completion of TB99 epidemiological investigations
398	Comparison of the sensitivities and specificities of intradermal tuberculin & gamma interferon tests in cattle
399	MDC project 98/R1/16
400	Bovine tuberculosis: a nutritional solution by Dr Fullerton
401	Minutes of 31 <sup>st</sup> Group Meeting on 18 <sup>th</sup> October 2000
402	Trial Manager's progress report on trial implementation
403	Trial operations: timeline for 2001
404	TB99: approval of revised format
405	Cresswell report on surveying audit
406	NFBG: controlling bovine tuberculosis in cattle - submitted to the Agriculture Select Committee by the NFBG

407	Implementation of RTA survey
408	Delineation of Triplets I and J
409	ISG Code of Practice
410	ISG Register of Interests
411	Triplet G corrected data
412	MAFF bovine tuberculosis - research workshop background papers 22/23 November 2000
413	First report by the statistical auditor
414	Bovine tuberculosis - what do we do next? Guest editorial in <i>Veterinary Journal</i> , 160, p85
415	Cattle-to-cattle transmission of bovine tuberculosis
416	Veterinary surveillance in England and Wales - consultation report
417	Minutes of 32 <sup>nd</sup> Group Meeting on 15 <sup>th</sup> November 2000
418	Draft response to Cresswell surveying audit report
419	Scoping study paper (Vaccine Steering Group)
420	Timeline for 2001
421	ISG Working Procedures
422	Cattle pathogenesis - category 3 facilities
423	Post-cull sett survey - Triplet G
424	Research Progress for projects SE 3001, 3006-7, 3107, 3109 & 3201
425	Concept note: use of multi-temporal satellite imagery
426	Further refinement of the reactive strategy
427	Cresswell report - MAFF draft response
428	Trial Manager's progress report on trial implementation
429	Three year survey
430	RTA survey - progress report
	<b>2001</b>
431	Summary report: TB research workshop 22/23 November 2000
432	Research progress: an assessment of the validity of the current necropsy protocol to detect lesions in the badger
433	Economic impact of TB
434	Minutes of 33 <sup>rd</sup> Group Meeting on 20 <sup>th</sup> December 2000
435	Trial Manager's progress report on trial implementation
436	Cresswell report - MAFF final response
437	RTA review
438	ISG response to the independent audit of surveying
439	Triplet H - post cull survey of sett activity
440	Scoping studies on vaccination of cattle and badgers against TB
441	Bovine TB - draft Research Requirements Document
442	Pathogenesis of TB in cattle - complementary fields studies
443	Report on immigration in proactive removal zones
444	Minutes of 34 <sup>th</sup> Group Meeting on 17 <sup>th</sup> January 2001
445	Badger culling trial - sample surveys
446	Resource requirements for badger - cattle vaccinations
447	Trial Manager's progress report on trial implementation
448	Triplet G - Staffordshire/Derbyshire
449	RTA survey in seven Counties
450	RTA survey - proposals for local publicity
451	Acute infection of calves with non-cytopathic bovine viral diarrhoea virus masks <i>in vitro</i> diagnostic tests for <i>M. bovis</i>
452	TB99 epidemiological investigations - control farms
453	Investigating the use of farm buildings by badgers and the consequent risks of <i>M. bovis</i> transmission in cattle
454	Government response to the Agriculture Select Committee report: ISG Advice
455	Project SE 3113: using herd depopulation for effectively controlling bovine tuberculosis
456	The incidence of TB in cattle - Great Britain
457	Consultation: draft Tuberculosis (England) order 2001
458	ISG proposed amendments to MAFF's TB research requirements
459	ISG data requirements from WLU database
460	Kinetics of Tuberculin skin test reactions following infection with low doses of <i>M. bovis</i> and the effects of intercurrent infection with bovine viral diarrhoea virus on the diagnosis of

	bovine tuberculosis
461	Minutes of 35 <sup>th</sup> Group Meeting on 14 <sup>th</sup> February 2001
462	Impact of the foot & mouth disease epidemic in the field trial and related research
463	CSL badger culling model
464	BCVA proposals for TB control strategy - MAFF commentary
465	1 <sup>st</sup> Draft of 3 <sup>rd</sup> report
466	Molecular epidemiology of bovine tuberculosis <i>M. bovis</i> genotyping
467	Concept note: low dose <i>M. bovis</i> challenge
468	Determinants of <i>M. bovis</i> Infection status: comparison between past badger removal operations and the current national trial
469	Effect of FMD outbreak on CSL research
470	Veterinary Laboratories Agency- Project SB 4300 (bovine TB infection status in cattle quarterly surveillance project) July 1999 - June 2000
471	The badger culling model: parameter estimation and the timing of births and culls
472	A simple model of the effect of badger culling on TB breakdown rate
473	Minutes of 36 <sup>th</sup> Group Meeting on 14 <sup>th</sup> March 2001
474	Project SE 3206: genome sequence analysis of <i>M. bovis</i>
475	Report of a meeting with Northern Ireland officials - 21/22 March 2001
476	Foot & mouth disease update
477	BCVA proposals for TB control strategy - MAFF commentary
478	2 <sup>nd</sup> Draft of 3 <sup>rd</sup> report
479	TB data on areas outside the trial
480	Agriculture Committee - reply by the Government to 1 <sup>st</sup> report from the Agriculture Committee, sessions 2000-1, "Badgers and Bovine TB: Follow-up"
481	VLA report on the Corvedale cluster, Shropshire
482	Project SE 0132: badgers and bovine TB – a proactive strategy for the control of bovine TB in a badger population
483	Impact of FMD on farmers' co-operation with the culling trial
484	Analysis of the welfare implications of badger culling, based on trial data to January 2001
485	Analysis of data from follow-up culls carried out in proactive areas to date
486	Agenda for TB modelling workshop
487	Minutes of 37 <sup>th</sup> Group Meeting on 11 <sup>th</sup> April 2001
488	Map of Herd Slaughter due to FMD as at 30 <sup>th</sup> April 2001
489	Initial proactive culls in triplets A, B, C, E, F, G and H. Preliminary analysis of data on badgers culled
490	Preliminary analysis of data from reactive areas
491	Group's Third Report to Ministers
492	Concept note: badger post mortem protocol
493	Number not used – no paper
494	Correspondence: cattle TB schemes; control or eradication; a critical reappraisal
495	Project SE 3020: an integrated approach to the application of <i>M. bovis</i> genotyping for the control of bovine tuberculosis in GB
496	Project SE 3002: ecological correlated of tuberculosis incidence in cattle
497	Recombinant form of <i>M. bovis</i> - replacement antigen for ELISA test
498	Project ZF 0531: Ecological consequences of badger removal – implications of FMD
499	Project SE3007: integrated modelling - PhD studentship
500	Minutes of 38 <sup>th</sup> Group Meeting on 16 <sup>th</sup> May 2001
501	Use of badger sera
502	VLA statistical help for data analysis
503	Statistical powers of the trial: views of Dr F Mathews
504	Amendments to TB99 survey in the light of the FMD epidemic
505	Interval between culling and post mortem – an assessment
506	Impact of FMD on the TB research programme
507	Possible culling timetable for the rest of 2001
508	FMD update
509	Muntjack deer: request for data
510	Project SE 3017 – revised CSG 7 proposal form
511	ERGO: request for TB and cattle data
512	Outline culling timetable from May 2002

513	FMD update: Dr Donnelly's paper and latest position
514	Dates for 2002 ISG Meetings
515	Minutes of 39 <sup>th</sup> Group Meeting on 13 <sup>th</sup> June 2001
516	Project SE 3011: understanding the route of transmission
517	Project SE 3018: cost effectiveness of gamma interferon test in multiple reactor herds
518	Project SE 3210: development of badger vaccines
519	Project SE 3212: testing TB vaccines in cattle
520	Project SE 3213: development of badger immunological reagents
521	Guest editorial – “a view from down under” in the <i>Veterinary Journal</i> , 2001, 161, 220-1
522	Strain typing methods for <i>M. bovis</i>
523	Detection & enumeration of <i>M.bovis</i>
524	Reverse bait marking
525	VLA request for ISG support for building up a plasma bank
526	Risk assessment to estimate the risk of TB in the wild boar & the risk of spreading to nearby cattle
527	Number not used – no paper
528	Vaccine scoping study – preliminary paper by Professors Bourne and Morrison
529	Capacity of <i>M. bovis</i> diagnostic culture work at VLA
530	Concept note: identification of resistance to TB in cattle
531	Project SE 3206: genome sequence analysis of <i>M. bovis</i>
532	Zoonotic implications of TB from tuberculin positive cattle
533	ISG 3 <sup>rd</sup> report: reconciling data
534	Modelling Bovine TB in Badgers
535	Annual reports for projects SE 3004, SE 3006, SE 3007, SE 3009, SE 3010, SE 3013, SE 3017, SE 3110, SE 3210 & ZF 0531
536	Research Requirements: 2002 – 2003 (appraisal of proposals)
537	Project SE 3003: multivariate analysis of risk factors affecting incidence of TB infection in cattle - final report
538	Project SE 3001: annual report
539	Advice to farmers restocking after FMD
540	Data handling queries from the WLU for ISG advice
541	Chart of past systems for badger removal
542	Use of farm buildings by badgers and associated risks of bovine TB transmission to cattle - relationships between badgers and their habitat
543	Articles from the <i>Veterinary Record</i> of 11 August 2001 – TB policy in limbo – TB control options – ELISA TB screening by Forrester, G J et al
544	Spongiform Encephalopathy Advisory Committee (SEAC) open meeting
545	ISG 3 <sup>rd</sup> report: NFBG news release
546	An evaluation of passive integrated transponders as a means of permanently marking badgers
547	Dr Fiona Mathew's attendance at September 2001 meeting of the ISG
548	Proposals submitted in response to Animal Health RRD 2002/3 document: assessments of ISG
549	BVD survey of bulk milk samples from dairy herds in badger culling trial areas
550	Contaminated culture samples
551	Shropshire Cluster Data - report of meeting on 27 July
552	Audit of biological material taken from trial badgers
553	Cost of storing additional culture material from culling trial and RTA badgers
554	Herd breakdown/badger removal operation analyses of badger TB prevalence
555	Minutes of 40 <sup>th</sup> Group Meeting on 11 <sup>th</sup> July 2001
556	Project SE 3210: request for adding an additional objective
557	TB research Requirements 2002-2003: ISG Appraisal Comments
558	TB research: annual reports of projects SE 3005, SE 3015, SE 3207, SE 3208, & SE 3209
559	TB vaccines: report for 2000-2001 by Dr J Colston
560	SOP: cell culture assay for the badger IFN-gamma EIA; revision of 21 <sup>st</sup> September 2001
561	Result of follow-up of human contacts of bovine tuberculosis in cattle during 1993-7 in North Staffordshire
562	Bovine tuberculosis infection status in cattle: surveillance report on spoligotyping for January to December 1998

563	Agenda for 42 <sup>nd</sup> Meeting to be held on 17 <sup>th</sup> October 2001
564	TB workshop 2001
565	Control of infectious diseases of wildlife in Europe ( <i>Veterinary Journal</i> 2001, 162, 141-153)
566	Re-commencement of badger culling trial field work post FMD
567	Draft protocol for Defra release of data on bovine tuberculosis in cattle and wildlife
568	Minutes of 41 <sup>st</sup> Group Meeting on 19 <sup>th</sup> September 2001
569	Project SE 3108: perturbation project, Oxford University – annual report
570	Research requirements document 2002/2003: summary document of e-appraisal
571	Field validation of IFN-Gamma Tests
572	Reactor estimates, per 1000 TB skin tests, for Great Britain in 2000
573	Further analysis of the BVD survey - interim results
574	FMD impact on trial areas as at 18 <sup>th</sup> October 2001
575	Molecular epidemiology of <i>M.bovis</i>
576	Temporal aspects of cattle TB in areas subject to badger control
577	Minutes of 42 <sup>nd</sup> Group Meeting on 17 <sup>th</sup> October 2001
578	TB99 quality control
579	Proposed badger sett density survey – from VLA
580	Concept note: a spatial analysis of farm contiguity implications for disease transmission
581	Review of audits connected with ISG work
582	Evaluation of closed season
583	Agenda for 43 <sup>rd</sup> ISG Meeting to be held on 14 <sup>th</sup> November 2001
584	Impact of FMD – presentation to the Secretary of State
585	Research project appraisal panel - 19 October 2001
586	Bactec system
587	Data handling meeting on 4 September 2001
588	Control of infectious diseases of wildlife in Europe
589	Project SE 3032: exploratory study to model the distribution and spread of bovine tuberculosis using multi-temporal satellite imagery
590	Project SE 3012: the potential of ticks as vectors of <i>M. bovis</i> – final report
591	Correspondence on category 3 facilities
592	Chairman's letter to Secretary of State
593	Draft letter to participants on resumption of trial
594	Minutes 43rd Group Meeting on 14 <sup>th</sup> November 2001
595	Modelling <i>M. bovis</i> control in badgers and cattle: CSL project proposal
596	Project SE 3108: record of samples collected by Oxford University
597	Draft veterinary risk assessment of FMD possible outbreaks if the RBCT resumed
598	Summary report of the bovine tuberculosis workshop on 22 <sup>nd</sup> & 23 <sup>rd</sup> October 2001
599	Interpreting a result of 0 positives out of N samples

**PAPERS (600-1199) OF THE INDEPENDENT SCIENTIFIC GROUP ON  
CATTLE TB**

<b>NO</b>	<b>TITLE OF PAPER</b>
600	Oxford wildlife project – letter from Dr Mathews
601	Press release on restart of TB testing and field research
602	3 year survey – triplets A, B and C
603	Completion of surveys in triplets D, I and J
604	Progress report on project SE 3010, the risk to cattle from <i>M. bovis</i> infection in wildlife species other than badgers in areas of high herd breakdown risk
605	Distribution of TB99 lesions in cattle
606	Badger removal operation analysis paper
607	TB testing in the wake of FMD – action note to Defra staff
608	Preliminary analysis of enrolment questionnaires
609	Concept note: proposed badger sett density survey
610	Oxford project review meeting on 16 <sup>th</sup> November 2001
611	Agenda for 44 <sup>th</sup> Meeting to be held on 12 <sup>th</sup> December 2001
612	Project SE 3008 proposed extension to develop and evaluate PCR assays to detect <i>M. bovis</i>
613	NFBG correspondence / press notice
614	Molecular epidemiology discussion group on 26 <sup>th</sup> November 2001
615	RBCT audit: effectiveness of surveying - summary
616	Costings for Warwick University restocking proposal
617	Minutes of 44 <sup>th</sup> Group Meeting on 12 <sup>th</sup> December 2001
618	Pre-print copy of an article in press - "a mathematical model for the control of diseases in wildlife populations: culling, vaccination and fertility control"
	<b>2002</b>
619	Code of practice for scientific advisory committees
620	Agenda for 45 <sup>th</sup> Meeting to be held on 16 <sup>th</sup> January 2002
621	Project SE 3018 (objective 4): gamma interferon test feasibility trial – final report
622	Project SE 3207: antigen presenting cell and T cell responses to <i>M. bovis</i> - annual report
623	Project SE 3109: novel methods of estimating badger numbers in the wider countryside
624	RTA survey – draft action note
625	Molecular epidemiology discussion group meeting on 26 <sup>th</sup> November 2001 – final note
626	Oxford wildlife project – letter from Dr Mathews
627	Number not used – no paper
628	Post mortem examination procedures
629	Transcript of <i>News Night</i> of 8 <sup>th</sup> January 2002
630	Abstracts of six proposed CSL papers for 2002 Mammal Society Easter Conference
631	Comparative trial of Bactec and standard culture methods for isolating <i>M. bovis</i> from badger tissue
632	RBCT re-launch: biosecurity procedures and response to restart letter to participants
633	Project SE 3116: the economic value of changes in badger populations – amended project proposal
634	Project SE 3026: bovine TB transmission in restocked herds - risk factors and dynamics
635	SOP for the release of RBCT data
636	Draft minutes of the 1 <sup>st</sup> VSSSC meeting
637	Proposed WLU time line for May 2002 - January 2003
638	Project SE 3029: An investigation of potential badger/cattle interactions including the extent of badger visitations to farm buildings and food stores, and how cattle husbandry methods may limit these
639	Project SE 3115: a comparison of the standard and extended post mortem protocol to detect mycobacterial infection in the badger
640	Minutes of 45 <sup>th</sup> Group Meeting on 16 <sup>th</sup> January 2002
641	SOP 17: development, ratification & maintenance of SOPs
642	Number not used – no paper
643	Cattle pathogenesis: clarification on category 3 accommodation at IAH Compton

644	Project SE 3010: future strategy
645	Project SE 3009: an investigation of the risk to cattle from TB in wildlife other than badgers - letter from the Chairman to Dr Mathews
646	John Bourne's letter of 29 <sup>th</sup> January 2002 to NFBG - the ISG 3 <sup>rd</sup> report's circulation.
647	Evaluation of the closed season: lactating sows, potential risk to control strategies – 1995 position paper, compilation by VLA
648	Inconclusive reactors to the intradermal TB test – paper prepared for TB Forum discussion
649	Surveys for badger activity in proactively culled treatment areas
650	Project SE3023: exploratory study to model the distribution and spread of bovine tuberculosis using multi-temporal satellite imagery
651	Gamma Interferon sub-group: note of meeting on 17 <sup>th</sup> January 2002
652	Bovine TB in restocked herds: risk factors and dynamics
653	Minutes of the 1 <sup>st</sup> VSSSC Meeting
654	Agenda for 46 <sup>th</sup> Meeting to be held on 13 <sup>th</sup> February 2002
655	List of recently published papers by VLA on bovine TB
656	Specifications for audit of post mortem examination procedures
657	Progress report on trial implementation (February 2002)
658	TB research projects due to complete in FY 2002/03
659	Minutes of 46 <sup>th</sup> Group Meeting on 13 <sup>th</sup> February 2002
660	Progress report on trial implementation (March 2002)
661	RTA position report and NFU opinion
662	Survey for badger activity in triplet A (Hereford/Gloucs)
663	Project SE 3020: An integrated approach to the application of <i>M. bovis</i> genotyping for the control of tuberculosis in GB – progress report on the spatial component
664	SOP: WLU bio-security
665	Concept note: further investigations to improve and develop models of the distribution and spread of bovine tuberculosis
666	Sampling badger faecal deposits as a means of estimating population densities
667	Project SE 3004: report on unmatched case control study to investigate risk factors for TB breakdowns on cattle farms in the UK
668	Ecological Project Advisory Group: notes of 2 <sup>nd</sup> meeting – 14 <sup>th</sup> February 2002
669	TB outside trial areas
670	Field trial audit: correspondence with Cresswell Associates
671	Badger accommodation at CSL Sand Hutton
672	Note of meeting with the RSPCA – 15 <sup>th</sup> February 2002
673	Note of meeting – gamma interferon sub-group of the TB Forum – 17 <sup>th</sup> January 2002
674	Agenda for 47 <sup>th</sup> Meeting to be held on 13 <sup>th</sup> March 2002
675	Trap related injuries study – report by the veterinary adviser
676	CSL report on trap related injuries
677	Report of data handling meeting on 6 <sup>th</sup> March 2002
678	Project SE 3026: revised CSG 7 administration form
679	Quality control of badger tissue culture: evaluation protocol
680	Report of the audit by Cresswell Associates of the effectiveness of trapping procedures used in the RBCT
681	Three articles from the <i>Veterinary Record</i> of 2 <sup>nd</sup> March 2002 – keeping the lid on bovine TB – sequencing <i>M. bovis</i> – TB in badgers & cattle
682	TB99 auditing meeting with Chiltern International
683	Second interim TB99 analysis
684	Project SE 3018: continued inclusion of work in North Nibley study area
685	Project SE 3215: revised proposal for development of immunological assays for the detection of <i>M. bovis</i> infection in badgers
686	Project SE 3216: revised proposal for the development and testing of vaccines against badger tuberculosis
687	Welfare of badgers subject to culling: patterns of trap-related injuries
688	Record of Professor Bourne's meeting with the CVO on 7 <sup>th</sup> March 2002
689	Welfare of badgers subjected to culling: development and evaluation of a closed season
690	20% 3 year surveys: National Trial Manager's report
691	Survey on 7 <sup>th</sup> March 2002 of setts in Poulshot proactive area
692	Project proposal R22B – whole herd slaughter studies – meeting on 24 <sup>th</sup> January 2002

693	Field trial operations: enhancement of security options
694	Prioritisation of mycobacterial cultures at VLA
695	Project SE 3108: redrafting of the perturbation project following FMD
696	Professor Bourne's letter to Mr Morley of 18 <sup>th</sup> March 2002 on the effects of FMD on the trial and other issues
697	March/April articles on bovine TB in <i>Farmers Guardian</i> , <i>Western Daily Press</i> & <i>New Scientist</i> , transcripts of <i>Farming Today</i> (4 <sup>th</sup> April) and <i>Radio Gloucestershire</i> (21 <sup>st</sup> March) & activist poster
698	Blood samples from trial badgers: summary of requirements
699	Draft paper on <i>M. Bovis</i> : first indigenous human cases in the UK since 1990
700	Minutes of 47 <sup>th</sup> Group Meeting on 13 <sup>th</sup> March 2002
701	Agenda for 48 <sup>th</sup> Meeting to be held on 17 <sup>th</sup> April 2002
702	Minutes of Ecological Project Advisory Group on 15 <sup>th</sup> March 2002
703	Effect of freezing on culture of <i>M. bovis</i>
704	Review of bovine TB research programme
705	TB statistics – 1 <sup>st</sup> January to 28 <sup>th</sup> February 2002
706	VSSSC – minutes of 14 <sup>th</sup> March 2002 meeting
707	Progress report on trial implementation (April 2002)
708	Chapter on spatial analysis by Diggle, P
709	Project SE3107: to develop innovative methods to estimate badger density - Protocol for estimation of badger numbers before and after pro-active trapping using faecal DNA sampling.
710	RTA survey in 7 Counties - National Trial Manger's report
711	Report on expert opinion Workshop on the pathology of <i>M. bovis</i> infection in badgers
712	SOP 11: post mortem examination of badgers
713	SOP 18: carcass submission of badgers
714	SOP 9: humane despatch of badgers
715	Request to modify pre-baiting procedures in Madron proactive follow up cull
716	Article on bovine TB - <i>Farmers Weekly</i> of 12 <sup>th</sup> - 18 <sup>th</sup> April 2002
717	Minutes of 48 <sup>th</sup> Group Meeting on 17 <sup>th</sup> April 2002
718	Draft SOP 20: reactive strategy
719	Field trial operations: reporting unlawful activity to badger setts
720	Warwick University – project on risk to cattle from TB in soil
721	Statistics on bovine TB in cattle – 1 <sup>st</sup> January to 31 <sup>st</sup> March 2002
722	Transcripts of radio programmes on bovine TB – March 2002
723	Agenda for 49 <sup>th</sup> Meeting to be held on 15 <sup>th</sup> May 2002
724	Number not used – no paper
725	Statistical audit of the field trial
726	Testing of cattle for TB
727	Progress report on trial implementation
728	RTA survey in 7 Counties - National Trial Manger's report
729	20% survey of triplet A
730	Commission of European Communities Amendment of Annex B (Tuberculosis) to Directive 64/432/EEC
731	Sett inspection of Staffordshire proactive treatment area (trial area G2)
732	Minutes of 49 <sup>th</sup> Group Meeting on 15 <sup>th</sup> May 2002
733	Defra review of science-based agencies
734	Chairman's letter to the Royal Society on the work of the ISG
735	Additional measures to combat the spread of bovine TB
736	Minutes of cattle pathogenesis meeting on 30 <sup>th</sup> April 2002
737	Post genomics progress report
738	Immunological correlates of pathology: VLA paper considering ESAT-6-specific gamma interferon
739	TB99 questionnaires – proposals to clear backlog
740	Environment, Food and Rural Affairs Committee's request for update on bovine TB
741	Agenda for 50 <sup>th</sup> Meeting to be held on 12 <sup>th</sup> June 2002
742	National Trial Manager's letter to West Mercia police
743	Press cuttings - <i>Farmers Weekly</i> – 24 <sup>th</sup> May 2002
744	RTA survey in 7 Counties - National Trial Manger's report

745	Progress report on trial implementation
746	Detection and characterisation of novel viral agents in badgers
747	Becton Dickinson MGIT isolation system for <i>M. bovis</i>
748	Data on interference with trapping by anti-trial activists
749	VSSSC - minutes of 13 <sup>th</sup> May 2002 meeting
750	Report on bovine TB discussed at 5 <sup>th</sup> EWDA Conference, Heidelberg, May 2002
751	Minutes of 50 <sup>th</sup> Group Meeting held on 12 <sup>th</sup> June 2002
752	Revision 2.1 of SOP 11 – PM examination of badgers
753	Revision 2.0 of SOP 12 – tissue culture
754	Agenda for 51 <sup>st</sup> Meeting to be held on 11 <sup>th</sup> July 2002
755	RTA survey in 7 Counties - National Trial Manger's report
756	Progress report on trial implementation
757	Draft race equality scheme
758	Data on gamma interferon – validation data from Northern Ireland
759	Royal Society paper on the use of farm resources by badgers and the risk of bovine TB transmission to cattle
760	Animal health Research Requirements Document
761	Project SE 3109: novel methods of estimating badger numbers in the wider countryside – revised milestones
762	Monthly statistics on the incidence of TB in cattle
763	Project SE 3030: post genomics – annual report
764	Agenda for the TB research programme review
765	Interference with trapping – response to paper 748 – by Dr Woodroffe
766	Mapping bovine tuberculosis in the UK using environmental data
767	Reports on post proactive follow up cull surveys - triplets A and F
768	Enrolment cover letter and questionnaire
769	Minutes of SVS/VLA gamma interferon steering group meeting on 14 <sup>th</sup> June 2002
770	Research and development annual reports for projects SE 3007, SS 3009, SE 3112 & ZF 0531
771	Completion of TB99 reports: proposal for use of contractor
772	Defra funded project on the effects of perturbation in disturbed badger populations - survey
773	Delineation of triplets I and J
774	Task force meeting of the “tuberculosis” Sub-Group - European Communities Directorate General for Health & Consumer Protection
775	Proposed dates for Group Meetings in 2003
776	5 Year Review of TB Research Programme
777	Minutes of 51 <sup>st</sup> Group Meeting on 11 <sup>th</sup> July 2002
778	Project SE 3009: TB infection in wildlife species other than badgers – <i>M. bovis</i> culture
779	BVD study in dairy herds in trial areas – final report
780	SOP 18: badger carcass submission
781	Surveys for badger activity post proactive follow-up culls
782	Agenda for 52 <sup>nd</sup> Meeting to be held on 25 <sup>th</sup> September 2002
783	RTA Badger survey statistics reports – July and August 2002
784	Employment of contractors to reduce backlog of TB99 - questionnaires in trial areas
785	SOP 6: cage trapping of badgers
786	SOP 5: surveying
787	NFBG news release of 28 <sup>th</sup> August 2002 on complaint to BBC
788	Concept note: badger control by contraception
789	Research and development annual reports for projects SE 3001, SE 3006, SE 3008, SE 3010, SE 3013, SE 3017, SE 3020, SE 3107, SE 3110, SE 3206, SE 3208, SE 3209 & SE 3212
790	Project SE 3212: testing TB vaccines in cattle - milestone amendments
791	TB culture delays: prioritisation of bacteriological culture of bovine samples
792	Projects SE 3018, SE 3213, SE 3113, SE 3210, & SE 3005 – final reports
793	Exchange of letters between ISG Chairman and CVO on TB99 survey
794	Re-selection of treatment for triplet I
795	Slaughter and post mortem of TB reactors
796	Progress report on trial implementation
797	Outstanding notifications requiring reactive culling

798	Enrolment cover letter and questionnaire
799	DARDNI final report on the control of bovine tuberculosis
800	Monthly statistics on the incidence of TB in cattle
801	TB99 auditing: proposed plan of action
802	Timetable for proactive cull in triplet I
803	Concept note: housing of naturally infected cattle (field reactors) at VLA for immunological and bacteriological analysis
804	Minutes of 52 <sup>nd</sup> Group Meeting on 25 <sup>th</sup> September 2002
805	TB culture of bovine samples: monthly report on clearance of backlog
806	Agenda for 53 <sup>rd</sup> Meeting to be held on 23 <sup>rd</sup> October 2002
807	Report of data handling meeting on 17 <sup>th</sup> September 2002
808	Inconclusive reactors to the intradermal tuberculin test: a matched analysis to inform consideration of possible alternative approaches
809	Investigations into risks of bovine tuberculosis breakdowns in cattle outside the badger trial areas
810	RTA survey in 7 Counties - National Trial Manger's report
811	Transcript of BBC <i>Farming Today</i> (subject: bovine TB) on 10 <sup>th</sup> October 2002 & Defra news release on Autumn package of TB measures
812	Proposed trial of the gamma interferon test: ISG protocol and Defra critique
813	Estimated cost of Defra's cattle TB research programme for 2002-3
814	Project SE 3015: <i>M. bovis</i> pathogenesis – annual report
815	FOI Act 1990: implementation of a publication scheme
816	Agreed dates for ISG Meetings in 2003
817	Ecological Projects Advisory Group report – 24 <sup>th</sup> September 2002
818	TB99 update report
819	Progress report on trial implementation – October 2002
820	Reactive culling programme for October 2002 – January 2003
821	Monthly statistics on the incidence of TB in cattle
822	The effects of selenium and copper on TB in badgers
823	Project SE 3115: extended badger post mortem – revised proposal
824	Project SE 3025: whole herd slaughter– revised proposal
825	ISG Research Assistant monthly report
826	TB testing history of herds within the trial area
827	Minutes of the 9 <sup>th</sup> July 2002 VSSSC meeting
828	Minutes of 53 <sup>rd</sup> Group Meeting on 23 <sup>rd</sup> October 2002
829	Project SE 3109: novel methods of estimating badger numbers in the wider countryside
830	Project SE 3110: molecular genetic analysis of badger social structure and TB - revised milestones
831	Project ZF 0531: ecological consequences of removing badgers from an ecosystem - revised milestones
832	Project SE 3022: survival of <i>M. bovis</i> in laboratory made silage - final report
833	Nutritional interactions with TB in badgers
834	Proposal: the Influence of population density on contact rates in badger populations
835	Progress report on trial implementation - October 2002
836	Agenda for 54 <sup>th</sup> Meeting to be held on 20 <sup>th</sup> November 2002
837	ISG Research Assistants' monthly report
838	Update: TB testing history of herds within the trial area - missing herds or missing herd tests?
839	Draft report of the audit on the humaneness of badger despatch procedures
840	Progress report on trial implementation – November 2002
841	TB99 case / control reports for the year 2002 - summary at 15 <sup>th</sup> November 2002
842	TB culture of bovine samples: monthly report on clearance of backlog
843	Current list of research projects and future priorities
844	Minutes of a meeting between ISG Research Assistants and VLA staff
845	Pre and post-cull surveys of triplet I proactive treatment area
846	Possible reasons for herds in trial areas not having had recent TB tests
847	Minutes of the 28 <sup>th</sup> October 2002 VSSSC meeting

848	Requirements of the Data Protection Act on trial data
849	Freedom of Information Act: ISG publication scheme
850	Project ZF 0531: the ecological consequences of removing badgers from an ecosystem - suggested reduction of monitoring work in reactive cull area
851	Progress report on trial implementation
852	TB99 update - report
853	TB culture of bovine samples: monthly report on clearance of backlog
854	Project SE 3115: extended badger post mortem procedures
855	ISG concerns about Defra gamma interferon trial
856	Agenda for 55 <sup>th</sup> Meeting to be held on 11 <sup>th</sup> December 2002
857	Minutes of 54 <sup>th</sup> Group Meeting on 20 <sup>th</sup> November 2002
858	Post cull survey of triplet J on 18 <sup>th</sup> November 2002
859	RTA survey in 7 Counties - National Trial Manger's report
860	The effects of 'delaying' the start of a badger removal operation
861	Priorities for future research funding
862	Project SE3115: extended badger post mortem procedures
863	ISG Research Assistants' monthly report
864	A proposed strategy for enhancing veterinary surveillance in the UK
865	ISG workshop on detection of <i>M. bovis</i> on 29 <sup>th</sup> October 2002
	<b>2003</b>
866	Meeting of the cattle pathogenesis projects meeting on 29 <sup>th</sup> October 2002
867	Agenda for 56 <sup>th</sup> Meeting to be held on 15 <sup>th</sup> January 2003
868	Minutes of 55 <sup>th</sup> Group Meeting on 11 <sup>th</sup> December 2002
869	TB99 survey update - report
870	Preparing an animal health and welfare strategy for GB
871	ISG Research Assistants' monthly report
872	TB culture of bovine samples: monthly report on clearance of backlog
873	Monthly statistics on the incidence of TB in cattle
874	Trial Progress Report – January 2003
875	RTA badger survey statistics reports – December 2002
876	Procedure for any extension of trapping for cubs if lactating sows were caught in December or January
877	Completion of TB99 case and control reports relating to TB incidents in culling trial areas (ADAS contract) – Progress Report
878	TB99 survey: ISG meeting with SVS on 18 <sup>th</sup> December 2003
879	Letter by Laura Green on bovine TB: risk of herd breakdowns on restocked farms
880	Delivery of reactive culling in the RBCT, to date
881	Minutes of 56 <sup>th</sup> Group Meeting on 15 <sup>th</sup> January 2003
882	Monthly statistics on the incidence of TB in cattle
883	Transcript of BBC <i>Farming Today</i> (subject: EFRAC enquiry) on 20 <sup>th</sup> January 2003 & NFBG news release of 29 <sup>th</sup> January 2003 on badger culling
884	Map of TB breakdown locations - 2002
885	Post cull survey of D3 proactive treatment area on 22 <sup>nd</sup> January 2003
886	<i>Agricultural Research</i> Article: An easy, inexpensive test detects tuberculosis in livestock and wildlife
887	ISG review: minutes of the meeting between Defra CSA and the ISG on 16 <sup>th</sup> December 2002
888	"Thank you" letter of 5 <sup>th</sup> February 2003 from the CVO to WLU staff
889	Summary of audits on randomised badger culling field trial
890	Application for funding - Woodchester Park Badger Field Study Centre
891	Project SE 3217: kinetics of skin test response in bovine TB - proposal
892	Minutes of VSSSC meeting on 12 <sup>th</sup> December 2002
893	ISG Research Assistants' monthly report, including list of research topics to be pursued
894	Correlation of ESAT-6 specific interferon production with pathology in cattle following <i>M. bovis</i> BCG vaccination against experimental bovine tuberculosis
895	The status of <i>M. bovis</i> infection in UK wild mammals: a review in <i>Veterinary Journal</i> , 2002, 164, 90-105
896	Agenda for 57 <sup>th</sup> Meeting to be held on 19 <sup>th</sup> February 2003
897	Trial Progress Report – February 2003

898	CVO's letter to Chief Executive, VLA on the manufacture and supply of tuberculin
899	Calculating the number of herds within trial areas
900	RTA Badger survey statistics reports – January 2003
901	Monthly triplet statistics report
902	Reactive strategy meeting minutes – at WLU HQ on 19 <sup>th</sup> December 2002
903	EFRAC inquiry into badgers and bovine TB - NFU evidence
904	EFRAC inquiry into badgers and bovine TB - NFBG evidence
905	Environmental and farm management factors associated with tuberculosis on cattle farms in north-eastern Michigan
906	Gamma interferon pilot trial design - data requirements
907	TB99 update report
908	TB culture of bovine samples: monthly report on clearance of backlog
909	Minutes of 57 <sup>th</sup> Group Meeting on 19 <sup>th</sup> February 2003
910	The Society for Veterinary Epidemiology and Preventive Medicine conference - proposed paper
911	The great badgers and bovine TB debate – <i>Journal of Agricultural Science</i> , 2002, 139, 223-6
912	Eight press articles from 21 <sup>st</sup> February to 5 <sup>th</sup> March 2003 on bovine TB
913	Monthly statistics on the incidence of TB in cattle
914	Closed season update
915	ISG Research Assistants' monthly report
916	Data on the probability of confirming disease in herds with NVL reactors only at the disclosing test
917	Disclosure of badger RTA survey results - review of policy
918	Badger culture work at CSL
919	TB culture of bovine samples: monthly report on clearance of backlog
920	Summary of enrolment questionnaire data
921	TB99 update report
922	RTA Badger survey statistics reports – January 2003
923	Trial Progress Report – March 2003
924	Agenda for 58 <sup>th</sup> Meeting to be held on 12 <sup>th</sup> March 2003
925	Analysis of data from follow-up culls carried out in proactive areas to date
926	The Society for Veterinary Epidemiology and Preventative Medicine conference - proposed poster on changes in badger setts
927	The Society for Veterinary Epidemiology and Preventative Medicine conference - proposed poster on the enrolment questionnaire
928	Effects of delays caused by FMD on the numbers of badgers caught in proactive trial areas
929	Minutes of VSSSC meeting on 6 <sup>th</sup> February 2003
930	Gamma Interferon – Minutes of meeting 23 <sup>rd</sup> January 2003
931	Minutes of 58 <sup>th</sup> Group Meeting on 12 <sup>th</sup> March 2003
932	Monthly statistics on the incidence of TB in cattle
933	Post maintenance cull survey on 20 <sup>th</sup> February 2003 of E3 proactive treatment area
934	Project SE 3026: bovine TB transmission in restocked herds, risk factors and dynamics – progress report
935	SOP 20: reactive strategy
936	Project SE 3108: an integrated study of perturbation, population estimation, modelling and risk - minutes of meeting of 12 <sup>th</sup> March 2003 and letter from Science Directorate
937	TB incidence in GB
938	Agenda for 59 <sup>th</sup> Meeting to be held on 9 <sup>th</sup> April 2003
939	SOP 10: heart blood sampling
940	Project SE 3208: generation of vaccine candidates against <i>M. bovis</i> – CSG7 form
941	Planning for the Group's 1 <sup>st</sup> Open Meeting
942	ISG Research Assistants' monthly report
943	Trial Progress Report – April 2003
944	Bovine TB - slaughterhouse case reports 1995- 2002
945	TB99 update report
946	Confirming disease in herds with NVL reactors only
947	Monthly triplet statistics report
948	Draft paper on possible short term policy options for dealing with bovine TB

949	TB culture of bovine samples: monthly reports on clearance of backlog
950	SOP 16: release of trial related data
951	Defra news release of 27 <sup>th</sup> March 2003 on movement restrictions, articles from Farmers' Weekly on bovine TB & Hansard (3 <sup>rd</sup> April 2003) on bovine TB
952	Association between molecular type and the epidemiological features of <i>M. bovis</i> in cattle
953	ISG quarterly TB99 report - April 2003
954	Report of the second auditor on the humaneness of dispatch procedures used in the RBCT and Defra's response (draft of 14 <sup>th</sup> April 2003)
955	Minutes of 59 <sup>th</sup> Group Meeting on 9 <sup>th</sup> April 2003
956	Animal Health & Welfare Directorate: science strategy 2003-6
957	Bullet trajectory study
958	Agenda for 60 <sup>th</sup> Meeting to be held on 14 <sup>th</sup> May 2003
959	SOP 8: delineation of badger social group territories
960	Concept note: metabolic stress in the dairy cow and TB susceptibility
961	Project SE 3002: ecological correlates of tuberculosis incidents in cattle - revised CSG 7 form
962	Validation of new serodiagnostic tests for badger TB
963	Project SE 3013: pathogenesis of TB in cattle, complimentary field studies - change in selection criteria for contacts
964	Research Assistants' work plan
965	RTA report
966	ISG Research Assistants' monthly report
967	Independent review of the RBCT
968	Cattle pathogenesis - draft minutes of projects meeting on 1 <sup>st</sup> April 2003
969	TB culture of bovine samples: monthly report on clearance of backlog
970	Trial Progress Report – May 2003
971	Minutes of a meeting of ISG with the CSA on 24 <sup>th</sup> March 2003
972	Incidence of TB in cattle
973	Press articles and transcripts during April 2003 on bovine TB
974	1 <sup>st</sup> Group Open Meeting - progress update
975	The effect of FMD on the TB testing of herds inside trial areas on annual testing
976	Audit of Biological Samples from badgers taken in the field trial
977	Short term policy options for dealing with bovine TB
978	Monthly Triplet Statistics – May 2003
979	Correspondence between Professor John Bourne and the CVO regarding sampling procedures for TB
980	Incidence of TB in cattle
981	Minutes of 60 <sup>th</sup> Group Meeting on 14 <sup>th</sup> May 2003
982	Agenda for 61 <sup>st</sup> Meeting to be held on 18 <sup>th</sup> June 2003
983	Draft final Report of the VSSSC
984	RTA report
985	TB culture of bovine samples: monthly report on clearance of backlog
986	TB culture backlog: prioritisation of culture of bovine tissue samples with visible lesions
987	Concept Note: metabolic stress in the dairy cow and TB susceptibility
988	Joint ERGO / VLA proposal: exploratory investigation of cattle movement
989	Economic Projects SE 3112 & 3116: meeting at University of Reading on 22 <sup>nd</sup> May 2003
990	Project SE 3002: ecological correlates – PCR screening of badger setts for <i>M. bovis</i>
991	Press articles and transcripts during May 2003 on bovine TB
992	Four requests, discussed at the 61 <sup>st</sup> Group Meeting, for the release of trial data
993	Freedom of Information Act, 2000: draft publication scheme
994	ISG Research Assistants' monthly report
995	Monthly Triplet Statistics – May 2003
996	TB99 audit interim report
997	Trial Progress Report – June 2003
998	Project SE 3026: bovine TB transmission in restocked herds, risk factors, dynamics and strategic use of tuberculin test - 4 <sup>th</sup> June 2003 meeting
999	Transcript of the Farming Today programme on 31 <sup>st</sup> May 2003 prepared by the NFBG
1000	Ministerial statement on the outcome of the TB and BR policy review, press release by DARDNI on 16 <sup>th</sup> June 2003

1001	Cull Summary papers for trial area B2 & E3 culls
1002	Agenda for 62 <sup>nd</sup> Meeting to be held on 10 <sup>th</sup> July 2003
1003	TB outside trial areas: paper from Warwick University for proposed publication
1004	Monthly statistics on the incidence of TB in cattle
1005	Quarterly TB 99 report, July 2003
1006	Minutes of 61 <sup>st</sup> Group Meeting on 18 <sup>th</sup> June 2003
1007	Project SE 3007: integrated modelling of <i>M. bovis</i> transmission in badgers and between badgers and cattle
1008	Post cull survey of D3 proactive treatment area on 24 <sup>th</sup> June 2003
1009	Research and development annual reports for projects SE 3028, SE 3110, SE 3112 & SE 3212
1010	Terms of Reference for the independent scientific review of the RBCT
1011	Strategic use of tuberculosis testing
1012	Trial Progress Report – July 2003
1013	RTA Report
1014	Probability of confirming diseases in herds with NVL reactors only
1015	TB culture of bovine samples: monthly report on clearance of backlog
1016	Triplet statistics report – June 2003
1017	Press articles and transcripts during June/July 2003 on bovine TB
1018	Action outside trial areas
1019	Note of the Chairman's meeting with Ben Bradshaw on 2 <sup>nd</sup> July 2003
1020	House of Commons liaison debate, badgers and bovine TB, on 3 <sup>rd</sup> July 2003
1021	Cloning, sequencing and expression of badger gamma interferon
1022	The rôle of setts in badger group size, breeding success and status of TB
1023	Minutes of 62 <sup>nd</sup> Group Meeting on 10 <sup>th</sup> July 2003
1024	Audit report by on badger post mortem procedures used in the RBCT
1025	Audit report of the effectiveness of trapping procedures used in the RBCT and an executive summary
1026	Repeat audit of the surveying SOP – draft report
1027	Final minutes of data handling meeting held on 4 <sup>th</sup> March 2003
1028	RTA Report
1029	Post Cull Survey Reports - July 2003
1030	TB culture of bovine samples: monthly report on clearance of backlog
1031	Monthly statistics on the incidence of TB in cattle
1032	Press articles and transcripts during July/August 2003 on bovine TB
1033	Trial progress report
1034	SOP 5: surveying
1035	SOP 6: cage trapping of badgers
1036	SOP 20: reactive strategy
1037	Reporting to the State Veterinary Service of RTA positive badgers from outside RBCT areas
1038	Overview of the 10% sett surveys carried out to date in the ten survey-only trial areas.
1039	Cattle pathogenesis research programme
1040	Confirmed ISG Meeting Dates for 2004
1041	Project SE 3026: bovine TB transmission in restocked herds, risk factors and dynamics
1042	Triplet Statistic Report
1043	Comparison of badger trapping by CSL / WLU
1044	1 <sup>st</sup> Group Open Meeting - update
1045	ISG Research Assistants' monthly report
1046	Agenda for 63 <sup>rd</sup> Meeting to be held on 24 <sup>th</sup> September 2003
1047	Draft paper on the development of a future TB strategy
1048	Annual Report Update - the timing, style and content
1049	Metabolic stress in dairy cows and TB susceptibility
1050	Project SE 3112: economic impact of TB in cattle - changes to the Terms of Reference
1051	Project SE 3013: pathogenesis and diagnosis of tuberculosis in cattle - complimentary field studies.
1052	Trial progress report
1053	Monthly statistics on the incidence of TB in cattle

1054	Compilation of past post cull surveys in one document
1055	ISG Research Assistants monthly report
1056	Agenda for 64 <sup>th</sup> Meeting to be held on 22 <sup>nd</sup> October 2003
1057	Minutes of 63 <sup>rd</sup> Group Meeting on 24 <sup>th</sup> September 2003
1058	TB culture of bovine samples: monthly report on clearance of backlog
1059	Letter of 16 <sup>th</sup> October 2003 to the Information Commissioner regarding ISG FoI publication scheme
1060	RTA Report
1061	TB strategy - discussion of Defra revised paper
1062	Brief résumé of data handling meeting held on 14 <sup>th</sup> October 2003
1063	Monthly Triplet Statistics Report
1064	Final TB99 audit report from Dr M Wahl
1065	TB99: Quarterly Report
1066	Ecological Project Advisory Group: minute of meeting on 22 <sup>nd</sup> September 2003
1067	Press articles and transcripts during September 2003 on bovine TB
1068	Minutes of meeting on 19 <sup>th</sup> September 2003 of ISG & Defra officials to discuss recommendations of TB99 audit
1069	Proposal for the suspension of TB99 part2 data collection for 2004
1070	Project SE 3007: integrated modelling of <i>M. bovis</i> transmission in badgers and between badgers and cattle - response to ISG comments on final report
1071	Minutes of 64 <sup>th</sup> Group Meeting on 22 <sup>nd</sup> October 2003
1072	Project SE 3112: assessment of the economic Impacts of TB and alternative control policies
1073	Press articles and transcripts during October/November 2003 on bovine TB
1074	Agenda for 65 <sup>th</sup> Meeting to be held on 19 <sup>th</sup> November 2003
1075	TB culture of bovine samples: monthly report on clearance of backlog
1076	Monthly triplet statistics report
1077	Analysis of trapping efficiency – paper dated May 2001 by Dr Woodroffe
1078	Notes on the RTA survey by CSL
1079	ISG Research Assistants' monthly report
1080	RTA Report
1081	Agenda for 66 <sup>th</sup> Meeting to be held on 17 <sup>th</sup> December 2003
1082	Minutes of 65 <sup>th</sup> Group Meeting on 19 <sup>th</sup> November 2003
1083	Release of RBCT culture result data
1084	Project SE3217: kinetics of skin test response in bovine TB
1085	Monthly statistics on the incidence of TB in cattle
1086	Post cull survey for triplets H and I - October 2003
1087	Project SE 3108: perturbation study
1088	ISG Research Assistants' monthly report
1089	Trial progress report
1090	RTA report
1091	TB culture of bovine samples: monthly report on clearance of backlog
1092	Summary of the feedback from the Open Meeting: feedback questionnaires
1093	Press articles and transcripts during November/December 2003 on bovine TB
1094	Concept note: research from Silsoe Research Institute
1095	Concept note: on research from University of Nottingham
1096	Shedding of <i>M. bovis</i> in nasal mucus of cattle experimentally infected with tuberculosis by intranasal routes
1097	Monthly triplet statistics
1098	Project SE 3007: response to ISG comment on the final report
1099	Minutes of a meeting on 27 <sup>th</sup> November 2003 at the WLU to discuss the post mortem draft audit report of Dr G Hall
1100	Indices of badger abundance and activity in RBCT areas
1101	Characterising patterns of bacterial shedding of cattle intra-nasally inoculated with different dosages of <i>M. bovis</i>
1102	TB 99 pre FMD analysis
1102B	Summary of pre-FMD TB99 analyses of data from triplets A, B and C - replacing ISG 1102
1103	Concept note: "electronic nose" technology to aid TB diagnosis
1104	Shedding of <i>M. bovis</i> in the nasal mucus of cattle experimentally infected with tuberculosis by the intranasal and intratracheal routes

1105	Project SE 3212: testing TB vaccines in cattle
1106	TB99 case/control reports for year 2004
1107	Breakdown severity during a bovine tuberculosis episode as a predictor of future herd breakdowns in Ireland
1108	Minutes of 66 <sup>th</sup> Group Meeting on 17 <sup>th</sup> December 2003
1109	Draft report of the 3 <sup>rd</sup> humanness of badger dispatch audit
1110	Agenda for 67 <sup>th</sup> Meeting to be held on 14 <sup>th</sup> January 2004
1111	Monthly statistics on the incidence of TB in cattle
1112	Consultation paper on the use of lay vaccinators in the event of a FMD outbreak
1113	Analysis of trial data - CVO's letter of December 2003 and ISG response
	<b>2004</b>
1114	ISG Research Assistants' monthly report
1115	TB 99 quarterly report
1116	Trial progress report
1117	RTA report
1118	TB culture of bovine samples: monthly report on clearance of backlog
1119	Post cull survey in trial areas A3 & F1
1120	Press articles and transcripts during December 2003 on bovine TB
1121	Monthly triplet statistics
1122	Draft of a proposed letter to attendees at the 1 <sup>st</sup> Open Meeting
1123	Badger RTA survey maps
1124	Spring bait marking in triplet G
1125	Feasibility of conversion of RBCT reactive trial areas to proactive areas
1126	Analysis of reactive trial data: 13 <sup>th</sup> January 2004 letter to the CVO
1127	Minutes of 67 <sup>th</sup> Group Meeting on 14 <sup>th</sup> January 2004
1128	Project SE 3034: exploratory investigation of cattle movement records in Britain to enhance animal disease surveillance and control strategies
1129	Estimation of badger abundance using faecal DNA typing
1130	Monthly Triplet Statistics
1131	Agenda for 68 <sup>th</sup> Meeting to be held on 10 <sup>th</sup> March 2004
1132	Project SE 3030: application of postgenomics to reveal the genetic and physiological basis of virulence, pathogenesis and transmissibility of <i>M. bovis</i>
1133	Project SE 3031: mapping badger sett density in England and Wales
1134	Trial progress report
1135	RTA report
1136	Freedom of Information Act: approved NDPB publication scheme for the ISG
1137	Monthly statistics on the incidence of TB in cattle
1138	A model of bovine tuberculosis in the badger: an evaluation of different vaccination strategies
1139	Report of the Internet "e-brainstorming for research ideas" exercise which ended on 29 <sup>th</sup> February 2004
1140	Note of a closed meeting of the Group held on 11 <sup>th</sup> February 2004
1141	Monthly triplet statistics
1142	TB culture of bovine samples: monthly report on clearance of backlog
1143	SOP 5: surveying – draft revision
1144	SOP 6: trapping – draft revision
1145	SOP 11 - post mortem – draft revision
1146	ISG Research Assistants' monthly report
1147	Bait marking in triplets G & H
1148	Minutes of TB99 working group meeting on 12 <sup>th</sup> February 2004
1149	Comparative culture trial using the Bactec 9240
1150	TB99 re-design sub-group: minutes of a meeting on 26 <sup>th</sup> February 2004
1151	Project SE 3109: novel methods of estimating badger numbers in the wider countryside
1152	TB Forum papers 84 & 102 on the gamma interferon test
1153	Graph of changes in bovine TB incidence in cattle for 1965 - 2002
1154	Final minutes of the 1 <sup>st</sup> meeting of the Vaccine Projects Advisory Group
1155	Proposed histological investigation of tuberculous and non-tuberculous granulomata in badgers
1156	Post cull survey of Lanreath trial area - November 2003

1157	Agenda for 69 <sup>th</sup> Meeting to be held on 7 <sup>th</sup> April 2004
1158	Minutes of 68 <sup>th</sup> Group Meeting on 10 <sup>th</sup> March 2004
1159	Data analysis: the effect of FMD on the TB testing interval of herds on annual testing inside trial areas
1160	Audit of badger post mortem procedures: final report and Defra draft response
1161	Referendum guidance
1162	Monthly statistics on the incidence of TB in cattle
1163	TB Forum Paper TBF101 on bovine TB statistics
1164	Trial progress report
1165	TB99 audit: Defra's response
1166	Monthly triplet statistics
1167	Development and validation of serological tests to detect cattle with bovine tuberculosis
1168	Project SE 3112: assessment of the economic impacts of TB and alternative control policies
1169	ISG Research Assistants' monthly report
1170	TB99 quarterly report
1171	Pre FMD TB 99 analyses
1172	Project SE 3032: perturbation study - ISG's comment
1173	Bacteriological culture audit report prepared by Dr M Corbel
1174	Statistical audit report, by Professor Mollison, on the text of the Godfray review
1175	Further perturbation study from CSL
1176	SOP 11: post mortem procedures - amended appendix
1177	Godfray Review Group's report: a note of the press conference which followed the publishing of the report
1178	SOP 5: surveying – new version 2.2
1179	Agenda for 70 <sup>th</sup> Meeting to be held on 5 <sup>th</sup> May 2004
1180	Minutes of 69 <sup>th</sup> Group Meeting on 7 <sup>th</sup> April 2004
1181	RTA Report
1182	Quarterly RTA survey maps
1183	Trial progress report
1184	Arrangements for the 2 <sup>nd</sup> Open Meeting of the Group
1185	ISG Research Assistants' monthly report
1186	Draft Minutes of the 9 <sup>th</sup> March 2004 Ecological Projects Advisory group meeting
1187	Monthly statistics on the incidence of TB in cattle
1188	Monthly triplet statistics
1189	Progress with the introduction of the new VetNet system.
1190	Agenda for 71 <sup>st</sup> Meeting to be held on 2 <sup>nd</sup> June 2004
1191	Minutes of 70 <sup>th</sup> Group Meeting on 5 <sup>th</sup> May 2004
1192	RTA Report
1193	Trial progress report
1194	Monthly triplet statistics
1195	Monthly statistics on the incidence of TB in cattle
1196	ISG Research Assistants' monthly report
1197	TB99 re-design group: draft case control form
1198	TB99 re-design group: draft disease report form
1199	TB99 re-design group: draft guidelines for the disease report form

**PAPERS (1200-1718) OF THE INDEPENDENT SCIENTIFIC GROUP ON  
CATTLE TB**

<b>NO</b>	<b>TITLE OF PAPER</b>
1200	Report on changes in RBC T Consent as reflected in the database from January 2003 to March 2004
1201	Correlation of responses to the enrolment questionnaire sent to Farmers in triplets D-J
1202	BCG badger vaccine trial design
1203	Development of a TB vaccine for badgers: potential use of vaccination in cattle or badger to control bovine tuberculosis
1204	The Chairman's letter to Defra on the TB strategy consultation document
1205	Pre FMD TB99 draft paper
1206	Project SE 3034: exploratory investigation of cattle movement records in Britain to enhance animal disease surveillance and control strategies
1207	Summary of 2002 TB99 survey
1208	TB99 re-design group: minutes of 3 <sup>rd</sup> meeting on 6 <sup>th</sup> April 2004
1209	Agenda for 72 <sup>nd</sup> Meeting to be held on 7 <sup>th</sup> July 2004
1210	Minutes of 71 <sup>st</sup> Group Meeting on 2 <sup>nd</sup> June 2004
1211	Influence of various factors on the likelihood of a culture positive result for badgers tested during 2003/2004 trapping season
1212	Trial progress report
1213	RTA report
1214	Monthly statistics on the incidence of TB in cattle
1215	Monthly triplets statistics
1216	Quality assurance manual for WLU – version 2.1
1217	Badger vaccine trial design consideration – paper by Professor Donnelly
1218	ISG Research Assistants' monthly report
1219	Comments on a revised draft of a paper by Laura Green and Stephen Cornell on TB outside trial Areas
1220	Minutes of a data handling meeting on 28 <sup>th</sup> April 2004
1221	Draft Defra response to the 3 <sup>rd</sup> humaneness of badger despatch audit report
1222	How resources not required for dead sett checking could be used
1223	Project SE 3001: a spatial analysis using GIS of risk factors associated with TB incidents in cattle herds in England and Wales, 1987-97
1224	Minutes of TB99 re-design group meeting on 3 June 2004
1225	Clarifications of the purpose of the RTA Survey
1226	Post cull survey for trial areas H2 and A3
1227	RTA survey maps
1228	The Group's proposal for an RTA survey to investigate the extent and spoligotype of TB in Wildlife
1229	Letter of 3 <sup>rd</sup> June 2004 from John Bourne to the CVO on analysis of reactive treatment
1230	Possum social network analysis – <i>Preventive Veterinary Medicine</i> , 2003, <u>59</u> , 147-167
1231	SOP 9: humane despatch of badgers
1232	Minutes of 72 <sup>nd</sup> Group Meeting on 7 <sup>th</sup> July 2004
1233	Draft Defra response to the bacteriological culture audit report
1234	Agenda for 73 <sup>rd</sup> Meeting to be held on 22 <sup>nd</sup> September 2004
1235	Minutes of TB99 working group held on 22 <sup>nd</sup> July 2004
1236	Minutes of 4 <sup>th</sup> TB99 re-design group meeting on 21 <sup>st</sup> July 2004
1237	A new GB strategy on bovine tuberculosis – consultation response summary
1238	RTA report
1239	Trial progress report
1240	Monthly statistics on the incidence of TB in cattle
1241	Monthly triplet statistics
1242	TB research requirement document for 2005/6
1243	Government response to EFRAC report
1244	Minutes of the 2 <sup>nd</sup> Vaccine Projects Advisory Group meeting on 1 <sup>st</sup> September 2004
1245	Project SE 3010: the risk to cattle from wildlife species other than badgers in areas of high

	herd breakdown risk – final report
1246	ISG Research Assistants' monthly report
1247	Minutes of the 5 <sup>th</sup> TB99 re-design group meeting on 3 <sup>rd</sup> September 2004
1248	Analysis of Spring bait marking study prepared by Dr Woodroffe
1249	Project SE 3015: <i>M. bovis</i> pathogenesis – final report
1250	Post cull survey data for trial areas B2, C3 & G2
1251	Project SE3002: ecological correlates of tuberculosis incidence in cattle – final report
1252	Draft programme plan for WLU in 2005/2006
1253	TB99 2004 progress report
1254	Defra TB strategy: Up-date and progress report
1255	Up-date on arrangements for the 2 <sup>nd</sup> Open Meeting
1256	CCS2005 epidemiological survey: proposed questionnaire and study design for approval
1257	Proposed dates for ISG Meetings in 2005
1258	Post cull survey data for trial area E3
1259	Agenda for the 74 <sup>th</sup> Meeting to be held on 20 <sup>th</sup> October 2004
1260	Minutes of 73 <sup>rd</sup> Group Meeting on 22 <sup>nd</sup> September 2004
1261	Monthly statistics on the incidence of TB in cattle
1262	SOP 18: carcase submission procedures
1263	Trial progress report
1264	RTA report
1265	ISG Research Assistants' monthly report
1266	Response to ISG comment regarding Defra's research requirements document
1267	Up-date on arrangements for the 2 <sup>nd</sup> Open Meeting
1268	Monthly triplet statistics
1269	RTA quarterly maps
1270	Analysis of pathology data from the RBCT
1271	Analysis of pathology data from the RTA survey
1272	Summary of analyses from the RTA survey
1273	Agenda for the 75 <sup>th</sup> Meeting to be held on 17 <sup>th</sup> November 2004
1274	Minutes of 74 <sup>th</sup> Group Meeting on 20 <sup>th</sup> October 2004
1275	Post cull survey setts survey of trial areas D3 and F1
1276	Trial progress report
1277	RTA report
1278	ISG Research Assistants' monthly report
1279	Monthly triplets statistics
1280	Confirmed dates for ISG Meetings in 2005
1281	Project SE 3011: understanding the route of TB transmission from badgers to cattle – final report
1282	Project SE 3009: the risk to cattle from <i>M. bovis</i> infection in wildlife species other than badgers – final report
1283	Identification of TB cases from herd testing triggered by RTA positive badgers
1284	Minutes of 75 <sup>th</sup> Group Meeting on 17 <sup>th</sup> November 2004
1285	Agenda for the 76 <sup>th</sup> Meeting to be held on 15 <sup>th</sup> December 2004
1286	RTA report
1287	Monthly triplet statistics
1288	Monthly statistics on the incidence of TB in cattle
1289	Submission to the Bern convention
1290	Article from <i>The Lancet</i> on $\gamma$ IFN: 4, December 2004, p761
1291	Plans for future research on badgers to be undertaken at CSL Woodchester Park
1292	Finalised dates for ISG meetings in 2005
1293	ISG Research Assistants' monthly report
1294	Feedback from those attending the 2 <sup>nd</sup> Open Meeting
1295	December 2004 draft of the new TB strategy
1296	Note of 30 <sup>th</sup> November 2004 meeting on the future of the RBCT
1297	Minutes of the Ecological Projects Advisory Group meeting on 21 <sup>st</sup> October 2004
1298	VLA request for release of TB99 data from Cornwall
1299	Defra's response to the ISG in relation to the Q&A on the new short-term TB control measures
1300	Draft Minutes of the 2 <sup>nd</sup> ISG Open Meeting

1301	Implementation of the Freedom of Information Act (2000)
1302	Comments given to Defra by Professors Bourne & Donnelly on the document "proposals for a study to estimate the specificity of the gamma interferon test for tuberculosis in cattle"
1303	Post cull survey of trial areas I2 and J1
1304	Trial progress report
1305	Correspondence from Evan Thomas, FUW, letter of 26 <sup>th</sup> November 2004
1306	Agenda for 77 <sup>th</sup> Meeting to be held on 12 January 2005
1307	Minutes of 76 <sup>th</sup> Group Meeting on 15 <sup>th</sup> December 2004
1308	Distance sampling and DNA recovery from badger faeces and hair
	<b>2005</b>
1309	Trial progress report
1310	RTA report
1310A	RTA report
1311	ISG Research Assistants' monthly report
1312	Monthly statistics on the incidence of TB in cattle
1313	Monthly triplet statistics
1314	Herd breakdowns around RTA positive badgers
1315	Request for approval of the application of parallel gamma interferon testing in a severe TB herd breakdown located in the D3 proactive RBCT area
1316	CSL badger perturbation modelling - reactive areas
1317	CSL badger perturbation modelling – proactive areas
1318	Project SE 3116: the economic value of changes in badger populations – final report
1319	The Republic of Ireland four areas badger study by Griffin et al
1320	Letter (6 <sup>th</sup> January 2005) from Defra to Professor Bourne on gamma interferon specificity trial
1321	RTA quarterly maps
1322	FoI: request from ITV Current Affairs department
1323	Agenda for 78 <sup>th</sup> Meeting to be held on 16 <sup>th</sup> February 2005
1324	Minutes of 77 <sup>th</sup> Group Meeting on 12 January 2005
1325	Minutes of the 6 <sup>th</sup> VSSSC meeting
1326	Monthly statistics on the incidence of TB in cattle
1327	Trial progress report
1328	RTA report
1329	Concept note: defining the quality of national TB data for a genetic solution
1330	ISG Research Assistants' monthly report
1331	Project SE 3108: a field study to reveal the effects of perturbation and to model the epidemiology of TB in disturbed badger populations – final report
1332	Project SE 3004: multivariate analysis of risk factors affecting tuberculosis incidents in cattle herds, phase 1 – final report
1333	Monthly triplet statistics
1334	Project SB 4004: a comparison of the standard and extended post mortem protocol to detect mycobacterial infection in the badger
1335	Evaluation of cetylpyridinium chloride as a decontaminant and transport medium for <i>M. bovis</i> infected cattle tissues
1336	Irish four areas trial – Defra questions and responses from the ISG
1337	Request for approval of the application of parallel gamma interferon testing in a severe TB herd breakdown located in the D2 survey-only RBCT area
1338	FOI request from ITV current affairs department
1339	CSG 7 form on the cost benefit analysis of badger and cattle management
1340	FoI: appeal against Defra refusal to release information about the RBCT
1341	Agenda for the 79 <sup>th</sup> Meeting to be held on 16 <sup>th</sup> March 2005
1342	Minutes of 78 <sup>th</sup> Group Meeting on 16 <sup>th</sup> February 2005
1343	Monthly statistics on the incidence of TB in cattle
1344	Trial progress report
1345	RTA report
1346	Welfare of badgers subjected to culling: patterns of trap-related injury – <i>Animal Welfare</i> paper by Woodroffe et al
1347	Welfare of badgers subjected to culling: evaluation of a closed season– <i>Animal Welfare</i> paper by Woodroffe et al
1348	Draft report of 2 <sup>nd</sup> TB99 audit

1349	Herd-level Risk Factors associated with Tuberculosis Breakdowns among Cattle Herds in England before the 2001 FMD Epidemic - <i>Royal Society Biology Letters</i> paper by Johnston et al
1350	Refusal to disclose the disease status of RTA badgers under the exemption provisions of the Environmental Information Regulations
1351	Monthly triplet statistics
1352	ISG Research Assistants' monthly report
1353	Analysis of RTA data from 2002-4
1354	Letter from Professor Bourne to Mr Edward Leddy-Owen on TB in deer
1355	The impact of localised reactive badger culling versus no culling on TB incidence in British cattle: a randomised trial, paper submitted for publication by Dr Le Fevre
1356	Format, for information to be provided to the Group when Defra was seeking authorisation for the use of gamma interferon ad hoc blood testing on cattle herds in RBCT areas
1357	Options for the release to the wider scientific community of RBCT data for the reactive and survey-only areas
1358	Correspondence between ISG and FUW
1359	Number not used – no paper
1360	CSL PowerPoint presentation on modeling
1361	Distance sampling proposal update - revised CSG7 form
1362	Note of meeting between Professor Bourne and Rt. Hon. Andrew George MP on 2 <sup>nd</sup> March 2005
1363	Agenda for the 80 <sup>th</sup> Meeting to be held on 13 <sup>th</sup> April 2005
1364	Minutes of 79 <sup>th</sup> Group Meeting on 16 <sup>th</sup> March 2005
1365	Note of a meeting on reactive treatment held on 1 <sup>st</sup> February 2005
1366	Monthly statistics on the incidence of TB in cattle
1367	Diagnosis and the tuberculin test: letter of 23 <sup>rd</sup> February 2005 from Professor Bourne to Defra
1368	Trial progress report
1369	RTA report
1370	Monthly triplet statistics
1371	ISG Research Assistants' monthly report
1372	Minutes of ISG meeting with the CVO on 14 <sup>th</sup> December 2004
1373	Diagnosis and the tuberculin test: letter (7 <sup>th</sup> April 2005) from Defra to Professor Bourne
1374	Limitation of the tuberculin test and testing protocols
1375	Spatial association of <i>M. bovis</i> infection in cattle and badger
1376	Draft minutes of meeting held at City Inn on 3 <sup>rd</sup> March 2005
1377	Quarterly RTA report
1378	A simple model for TB in cattle and badgers – paper by Sir David Cox
1379	CSG7 format for a ISG Research Assistant contract
1380	Disclosure of disease status of RTA badger carcasses
1381	Agenda for 81 <sup>st</sup> Meeting to be held on 11 <sup>th</sup> May 2005
1382	Minutes of 80 <sup>th</sup> Group Meeting on 13 <sup>th</sup> April 2005
1383	Monthly statistics on the incidence of TB in cattle
1384	Trial progress report
1385	RTA report
1386	Letter (18 <sup>th</sup> March 2005) of apology to Professor Bourne from FUW
1387	Minutes of a badger vaccine sub-group meeting at WLU HQ on 7 <sup>th</sup> April 2005
1388	Monthly triplet statistics
1389	Project SE 3212: testing of TB vaccines in cattle
1390	Project SE 3002: ecological correlates of TB Incidence in cattle – revised final report
1391	Spatial Association of <i>M. bovis</i> infection in cattle and badgers – draft paper
1392	ISG Research Assistant's monthly report
1393	Fol: further approach by ITV
1394	TB research requirements for 2005/06: summary of approval panel meeting on 3 <sup>rd</sup> /4 <sup>th</sup> March 2005
1395	Request for trial data to aid interpretation of perturbation project SE 3108
1396	Project SE 3117: cost-benefit analysis of badger control – final report
1397	Spatio-temporal analysis of herd breakdowns in the reactively culled trial areas
1398	North Atlantic weather oscillation and human infectious diseases in the Czech Republic,

	1951 – 2003, paper by Hubálek, Z in <i>J Epidemiology</i> , 20, 263-70
1399	Agenda for 82 <sup>nd</sup> Meeting to be held on 15 <sup>th</sup> June 2005
1400	Minutes of 81 <sup>st</sup> Group Meeting on 11 <sup>th</sup> May 2005
1401	Monthly statistics on the incidence of TB in cattle
1402	Questions arising from Project SE3002: ecological correlates of TB incidence in cattle
1403	Trial progress report
1404	RTA report
1405	Meeting on 5 <sup>th</sup> May 2005 between the CVO and the ISG
1406	CCS2005 epidemiological survey: Minutes of 2 <sup>nd</sup> Working Group Meeting on 17 <sup>th</sup> May 2005
1407	Text of a submission, regarding a badger vaccine field trial approved by the Parliamentary Secretary (Commons)
1408	Project SE 3117: cost-benefit analysis of badger control
1409	Project SE 3107: to develop innovative methods to estimate badger population density
1410	Project SE 3206: sequencing and analysis of the genome of <i>M. bovis</i>
1411	80 <sup>th</sup> Group Minutes – proposed revisions to Section 6
1412	Request for Slaughterhouse condemnation data: reply from Michael Sheridan to the National Trial Manager's 18 <sup>th</sup> May 2005 letter
1413	The Group's reply to Defra's letter of 7 <sup>th</sup> April 2005 on diagnosis and the tuberculin test
1414	Monthly triplet statistics
1415	Project SE3028: the development of improved tests for the diagnosis of <i>M. bovis</i> infection in cattle
1416	Badger control model: ISG's comment on CSL modelling project
1417	Request from Wildlife DNA Services for access to badger DNA data held by Sheffield University as part of research project SE 3110
1418	Number not used – no paper
1419	Draft report of 3 <sup>rd</sup> TB99 audit
1420	ISG Research Assistant's monthly report
1421	List of types of RBCT data that CSL had requested
1422	Occupier Consent to the RBCT 2002-2005
1423	Agenda for 83 <sup>rd</sup> Meeting to be held on 13 <sup>th</sup> July 2005
1424	Minutes of 82 <sup>nd</sup> Group Meeting on 15 <sup>th</sup> June 2005
1425	Monthly statistics on TB incidence in Britain
1426	Dates for future ISG meetings
1427	Herd breakdowns around RTA positive badgers
1428	Proposal for 2006 research requirements document
1429	A simple model for TB in cattle and badgers – further draft by Sir David Cox
1430	RTA TB prevalences 2002-2004
1431	Response to the Use of Imperial College's FMD model in the TB "setting"
1432	Project SE 3217: kinetics of skin test response in bovine tuberculosis – final report
1433	Project SE 3027: pathogenesis and immunology of <i>M. bovis</i> infection – final report
1434	Trial progress report
1435	RTA report
1436	RTA quarterly maps
1437	Report of the 4 <sup>th</sup> humaneness of badger culling audit
1438	Complaint by ITV West Country to the Information Commissioner
1439	NFU proposal to Defra on badger control: disease reduction through wildlife management – June 2005
1440	Occupier consent to the RBCT 2002-2005 - updated version
1441	Concept note from the University of Warwick for the proposed extra work in Project SE 3026: bovine TB transmission in restocked herds - risk factors & dynamics
1442	Comparison of <i>M. bovis</i> prevalence in RTA and nearby proactively culled badger
1443	Final minutes of meeting held at City Inn on 3 <sup>rd</sup> March 2005
1444	Preliminary report on distance sampling surveys of badgers
1445	Notes of meeting on 28 <sup>th</sup> June 2005 between Professor Bourne and Norman Baker MP, the Liberal Democrat agricultural spokesman
1446	Summary of comments received on TB99 audit report
1447	ISG Research Assistant Monthly Report
1448	Monthly triplet statistics
1449	Release of RTA data - maps showing badger disease status results

1450	VLA discussion document on bTB Testing
1451	Draft of a paper by Dr Woodroffe on Inter annual variation in <i>M. bovis</i> infections of badgers in Britain
1452	Minutes of 83 <sup>rd</sup> Group Meeting on 13 <sup>th</sup> July 2005
1453	Agenda for 84 <sup>th</sup> Meeting to be held on 21 <sup>st</sup> September 2005
1454	ISG advice to Defra on NFU proposal for badger control
1455	Monthly statistics on the incidence of TB in cattle
1456	Comments by the NFU on paper 1454
1457	ISG advice on continuation of aspects of the RBCT
1458	NFU report on bovine TB in New Zealand – June 2005
1459	Draft Response by Defra to the report of the 4 <sup>th</sup> humaneness of badger culling audit
1460	Preliminary 2004 TB99 analysis
1461	Proposed schedule of ISG Meetings in 2006
1462	The socio-economic impact of bovine tuberculosis, paper by Professor McInerney
1463	2005 report of the RBCT statistical auditor
1464	Lactation rates among RTA badgers 2002 – 2004
1465	Survival analysis of the time between breakdowns in the reactive areas of the RBCT in relation to badger capture
1466	Preliminary report on distance sampling surveys of badgers in trial areas D2&3 & G2&3
1467	Project SE 3008: detection and enumeration of <i>M. bovis</i> from clinical and environmental samples – final report
1468	RTA report
1469	Trial progress report
1470	Monthly triplet statistics
1471	ISG Research Assistants' monthly report
1472	Cost-benefit analysis of badger control and cattle management: minutes of a steering group meeting on 11 <sup>th</sup> July 2005
1473	Number not used – no paper
1474	Fol: update on ITV request
1475	Notes on Badger Post Mortem meeting held at WLU HQ on 27 <sup>th</sup> July 2005
1476	CCS2005 epidemiological survey progress report
1477	Agenda for the 85 <sup>th</sup> Meeting to be held on 19 <sup>th</sup> October 2005
1478	Minutes of the 84 <sup>th</sup> Group Meeting on 21 <sup>st</sup> September 2005
1479	Concept notes solicited by Defra on ecological research on badgers
1480	ERGO - VLA concept note: bovine TB distributions in mainland Great Britain - impact of cattle movements, climate and spoligotype
1481	Request from VLA for access to TB99 data for the use of TB99 data for a MSc project on bovine tuberculosis
1482	Arrangements for 3 <sup>rd</sup> Group Open Meeting
1483	Trial progress report
1484	RTA report
1485	ISG Research Assistants' monthly report.
1486	Monthly triplet statistics
1487	Monthly statistics on the incidence of TB in cattle
1488	Minutes of 85 <sup>th</sup> Group Meeting on 19 <sup>th</sup> October 2005
1489	Minutes of the 7 <sup>th</sup> Meeting of the Vaccine Steering Group
1490	Agenda for the 86 <sup>th</sup> Meeting to be held on 16 <sup>th</sup> November 2005
1491	Trial progress report
1492	RTA report.
1493	Draft plan for short interim report summarizing the work of the Group in 2005
1494	Detailed report of ERGO/VLA concept note on bovine TB distributions in mainland Great Britain: impact of cattle movements, climate and spoligotype
1495	ISG Research Assistants' monthly report
1496	Monthly triplet statistics
1497	Monthly statistics on the incidence of TB in cattle
1498	Agenda for the 87 <sup>th</sup> Meeting to be held on 14 <sup>th</sup> December 2005
1499	Minutes of 86 <sup>th</sup> Group Meeting on 16 <sup>th</sup> November 2005
1500	The final total of badgers culled in the RBCT
1501	Project SE 3020: an integrated approach to the application of <i>M bovis</i> genotyping for the

	control of bovine TB in GB – final report
1502	RTA report
1503	Trial progress report
1504	ISG Research Assistants' monthly report
1505	Project SE 3208: generation of vaccine candidates against <i>M. bovis</i> – final report
1506	Draft delegates pack for 3 <sup>rd</sup> Open Meeting
1507	Draft short interim report summarizing the work of the Group in 2005
1508	Monthly statistics on the incidence of TB in cattle
1509	Monthly triplet statistics
1510	3 <sup>rd</sup> Group Open Meeting draft agenda
1511	Advice on a Ministers' correspondence case regarding possible links between certain nutritional elements in soil and bovine tuberculosis
	<b>2006</b>
1512	Agenda of the 88th Meeting to take place on 25 <sup>th</sup> January 2006
1513	Minutes of 87 <sup>th</sup> Group Meeting on 14 <sup>th</sup> December 2005
1514	Report of the 5 <sup>th</sup> humaneness of badger culling audit
1515	Freedom of Information Act: revision of approved NDPB publication scheme for the ISG
1516	RTA report
1517	Trial progress report
1518	The revised final total of badgers culled in the RBCT
1519	Request by VLA for trial data on badger tissues
1520	Re-engineered VetNet database: an up-date
1521	House of Commons Environment, Food and Rural Affairs Committee: call for written evidence
1522	Monthly statistics on the incidence of TB in cattle
1523	ISG Research Assistants' monthly report
1524	Project SE 3017: development and evaluation of strain typing methods for <i>M. bovis</i> – final report
1525	Monthly triplet statistics
1526	Report on TB testing of cattle near confirmed TB positive RTA badgers
1527	Freedom of Information Act: publication of ISG committee papers and Minutes of Meetings
1528	Agenda for the 89 <sup>th</sup> Meeting on 22 <sup>nd</sup> February 2006
1529	Minutes of 88th Group Meeting on 25 <sup>th</sup> January 2006
1530	Draft Minutes of 3 <sup>rd</sup> Open Meeting
1531	Proposal to investigate enhanced resistance to TB in cattle using a genetic approach
1532	Proposed revisions to ISG's Freedom of Information Act (2000) approved publication scheme
1533	Project SE 3215: development of immunological assays for the detection of <i>M. bovis</i> infection in badgers – final report
1534	Project SE 3209: testing of vaccine candidates for bovine tuberculosis using a low dose aerosol challenge guinea pig model – final report
1535	ISG Research Assistants' monthly report
1536	Monthly triplet statistics
1537	3 <sup>rd</sup> Open Meeting feedback report
1538	Trial progress report
1539	Concept note: tracking the re-colonisation by badgers of a culled area using non-invasive genetic profiling
1540	Concept note: the use of aerial infra-red to survey wildlife
1541	Distance sampling surveys for relative badger densities in proactive and survey-only areas in 2005
1542	Suggested changes to ISG internet site: published data
1543	Monthly statistics on the incidence of TB in cattle
1544	Use of remotely collected DNA to monitor badger population density and recolonisation: an evaluation of two techniques
1545	Agenda for the 90 <sup>th</sup> Meeting to be held on 22 <sup>nd</sup> March 2006
1546	Minutes of 89 <sup>th</sup> Group Meeting on 22 <sup>nd</sup> February 2006
1547	Project SE 3201: the effect on viability of <i>M. bovis</i> of freezing samples prior to cultural testing – final report
1548	Trial progress report

1549	CCS2005 epidemiological survey: minutes of meeting held on 16 <sup>th</sup> February 2006
1550	Scoping paper on a letter of thanks to be provided to "survey and cull" and "survey-only" participants on conclusion of trial field work
1551	Draft for discussion of an analysis of prevalence and spoligotype, matching individual badgers to reactive breakdowns.
1552	EFRAC report on bovine TB: badger culling
1553	Monthly triplet statistics
1554	Project SE 3029: an investigation of potential badger/cattle interactions including the extent of badger visitations to farm buildings and food stores, and how cattle husbandry methods may limit these – final report
1555	The pattern of trap-related injury in badgers to October 2005 when RBCT culling was completed, paper by Drs Gao Wei & Woodroffe
1556	ISG Research Assistants' monthly report
1557	Monthly statistics on the incidence of TB in cattle
1558	Field trial to assess BCG administered to badgers: continuation of Project SE 3228
1559	Group response on internal edge effects: views of Officials
1560	CSL's response to the ISG query on culling efficiency figures
1561	Badger TB prevalence by triplet and year, predicted and actual figures (proactive badgers only)
1562	Draft response by Defra to the report of the 5 <sup>th</sup> Humaneness of badger culling audit
1563	Agenda for the 91 <sup>st</sup> Meeting to be held on 26 <sup>th</sup> April 2006
1564	Minutes of 90 <sup>th</sup> Group Meeting on 22 <sup>nd</sup> March 2006
1565	Monthly statistics on the incidence of TB in cattle
1566	ISG Research Assistants' monthly report
1567	Trial progress report
1568	Wider use of gamma interferon testing – Defra paper for the advice of the Group
1569	Number not used – no paper
1570	Project SE 3118: review and economic analysis of the use of rapid methods for <i>M. tuberculosis</i> complex and identification in the bovine TB control programme
1571	List of possible audit checks that WLU administrative staff could carry out in finalising the trial database
1572	Letters to farmers and landowners at the conclusion of the RBCT
1573	Results of the trial to determine the specificity of the bovigam IFN-Gamma test in GB Cattle, a VLA paper
1574	Prevalence and spoligotype analysis of badgers and cattle in reactive trial areas: an update of work in progress
1575	Agenda for the 92 <sup>nd</sup> Meeting to be held on 17 <sup>th</sup> May 2006
1576	Minutes of 91 <sup>st</sup> Group Meeting on 26 <sup>th</sup> April 2006
1577	Concept note: the possible significance of toxic substances, trace elements and micronutrient deficiencies as risk factors for TB infection of badgers and cattle
1578	Project SB 4008: laboratory testing and epidemiology support for the national gamma interferon field trial
1579	ISG Research Assistants' monthly report
1580	Proposal for environmental testing of RBCT culled setts
1581	Agenda for the 93 <sup>rd</sup> Meeting to take place on 21 <sup>st</sup> June 2006
1582	Minutes of 92 <sup>nd</sup> Group Meeting on 17 <sup>th</sup> May 2006
1583	Monthly statistics on the incidence of TB in cattle
1584	TB research requirement document for 2007/2008
1585	Minutes of Data Handling meeting held on 12 <sup>th</sup> May 2006
1586	ISG Research Assistants' milestones document
1587	ISG Research Assistants' monthly report
1588	Quarterly triplet statistics report
1589	Minutes of the CCS2005 epidemiological survey working group meeting on 25 <sup>th</sup> May 2006
1590	Project SE 3035: estimating numbers of badgers in proactive and control RBCT areas – final report
1591	Monthly statistics on the incidence of TB in cattle
1592	Agenda for the 94 <sup>th</sup> Meeting to be held on 19 <sup>th</sup> July 2006
1593	Minutes of 93 <sup>rd</sup> Group Meeting on 21 <sup>st</sup> June 2006
1594	Proposed dates for ISG Meetings in 2007
1595	Concept note: GIS analysis of CCS2005 data

1596	ISG Research Assistants' milestones document
1597	CCS2005 epidemiological survey draft audit report
1598	Project SE 3030: application of postgenomics to reveal the basis of virulence, pathogenesis & transmissibility of <i>M.bovis</i> – final report
1599	Final RTA survey report
1600	Spreadsheets for all 10% sett checks for unlawful activity carried out in survey-only areas and, since November 2003, in reactive areas.
1601	Draft report of the data handling system audit and draft Government response
1602	Arrangements for the ISG 4 <sup>th</sup> Open Meeting
1603	Internal edge effects consent report: does land access influence how badger culling affects cattle TB?
1604	An assessment of trapping efficacy In the RBCT
1605	ISG Research Assistants' monthly report
1606	Monthly statistics on the incidence of TB in cattle
1607	<i>M. bovis</i> prevalence data in RTA and proactively culled badgers
1608	Draft TB99 paper on herd-level factors associated with the risk of cattle TB among herds within the RBCT after the 2001 FMD epidemic
1609	Cattle TB diagnosis: future policy needs
1610	Draft paper "Up-dated effects of badger culling on the incidence of tuberculosis in cattle" (up-date of the proactive findings published in <i>Nature</i> in December 2005)
1611	Data systems and handling audit: progress regarding the auditor's recommendation 6
1612	Minutes of 94 <sup>th</sup> Group Meeting on 19 <sup>th</sup> July 2006
1613	Agenda for the 95 <sup>th</sup> meeting on 20 <sup>th</sup> September 2006
1614	ISG Research Assistants' milestones document
1615	Format of final reports of public bodies and suggestions for the ISG Final Report.
1616	Monthly statistics on the incidence of TB in cattle
1617	A Proposal, organised by the NFU, on a Badger Culling Policy
1618	ISG Research Assistants' milestones document
1619	Project SE 3026: bovine TB transmission in restocked herds, risk factors & dynamics – final report
1620	Project SE 3035: estimating badger density in RBCT proactive and control areas – final report
1621	Project SE 3037: risk assessment on the rôle of wild deer in the perpetuation of TB in cattle – final report
1622	Quarterly triplet statistics report
1623	Comparing <i>M. bovis</i> prevalence estimates from RTA and proactively-culled badgers
1624	Analysis of trap interference and trap pattern
1625	ISG Research Assistants' monthly report
1626	Updates to the ISG website
1627	Trends in badger activity relative to culling
1628	RBCT trapping efficiency: review of CSL analyses and proposed ISG paper
1629	TB prevalence and clustering in initially culled badgers
1630	Quantity, distribution and severity of visible lesions in <i>M. bovis</i> infected badgers and the effect of bite wounds
1631	Bite wounds and TB in badgers – which comes first?
1632	Levels of interference with trapping operations
1633	Saturation of trapping opportunities
1634	Do bovine TB-infected RTA badgers mark an increased local risk that cattle herds are infected?
1635	Minutes of 95 <sup>th</sup> Group Meeting on 20 <sup>th</sup> September 2006
1636	Agenda for the 96 <sup>th</sup> Meeting to be held on 18 <sup>th</sup> October 2006
1637	Monthly statistics on the incidence of TB in cattle
1638	<i>M bovis</i> prevalence and spoligotype analysis of badgers and cattle in reactive trial areas
1639	Gamma interferon report, part 2: analysis of <i>ad hoc</i> laboratory testing
1640	Comparison of sett and badger densities on land surrounding TB99 cases and controls in proactive areas of the RBCT in 2002-4
1641	Addendum to ISG 1624 – location of badger catches over time
1642	ISG Research Assistants' monthly report
1643	Agenda for the 97 <sup>th</sup> Meeting to be held on 22 <sup>nd</sup> November 2006

1644	Minutes of 96 <sup>th</sup> Group Meeting on 18 <sup>th</sup> October 2006
1645	Minutes of CCS2005 epidemiological survey meeting held on 28 <sup>th</sup> September 2006
1646	State Veterinary Service review of parish testing Intervals
1647	Up-dated analysis of the data from the proactively culled areas of the RBCT
1648	TB husbandry working group: background on their work on husbandry and biosecurity
1649	ISG Research Assistants' monthly report
1650	Monthly statistics on the incidence of TB in cattle
1651	The distribution and severity of pathological lesions in badgers naturally infected with <i>M. bovis</i>
1652	Effects of culling on badger abundance: implications for tuberculosis control
1653	Genotyping of <i>M. bovis</i> isolates from badgers in four areas of the Republic of Ireland by restriction fragment length polymorphism analysis
1654	Agenda for the 98 <sup>th</sup> Meeting to be held on 13 <sup>th</sup> December 2006
1655	Minutes of 97 <sup>th</sup> Group Meeting on 22 <sup>nd</sup> November 2006
1656	Note on cattle testing intervals by Sir David Cox
1657	Note of a meeting between Minister of State and Professor Bourne on 29 <sup>th</sup> November 2006
1658	Quarterly triplet statistics report
1659	ISG Research Assistants' monthly report
1660	Project SE3035: estimating badger densities in proactive and control RBCT areas - summary report for ISG on results from 2005 and 2006
1661	The distribution and severity of pathological lesions in badgers naturally infected with <i>M. bovis</i> : draft report
1662	Experimental and field studies on the transmission of bovine tuberculosis between cattle: an up-date
1663	Minutes of 98 <sup>th</sup> Group Meeting on 13 <sup>th</sup> December 2006
	<b>2007</b>
1664	RBCT data handling audit report
1665	Monthly statistics on the incidence of TB in cattle
1666	Project SE 3024: low dose infection in cattle - disease dynamics and diagnostic strategies
1667	Project SE 3226: development of tools to study immunopathology in badger tuberculosis.
1668	Project SE 3225: in-depth histopathology characterization of lymph node granulomas in natural and experimental bovine tuberculosis
1669	Project SE 3013: pathogenesis and diagnosis of tuberculosis in cattle - complementary field studies
1670	Article for <i>Science and Public Affairs Magazine</i>
1671	Genetic evidence that culling increases badger movement
1672	Outcome of funding for bovine TB research requirements 2007/2008, and extensions of existing bovine TB research projects
1673	ISG Research Assistants' monthly report
1674	The distribution and severity of pathological lesions in badgers naturally infected with <i>M. bovis</i>
1675	Preliminary analysis of cattle movements in RBCT herds
1676	Preliminary results of spatio-temporal analysis
1677	Agenda for the 99 <sup>th</sup> Meeting to be held on 17 <sup>th</sup> January 2007
1678	Minutes of 99 <sup>th</sup> Group Meeting on 17 <sup>th</sup> January 2007
1679	Agenda for the 100 <sup>th</sup> Meeting to be held on 14 <sup>th</sup> February 2007
1680	Monthly statistics on the incidence of TB in cattle
1681	Archiving the RBCT and public release of papers, databases and tissues
1682	Defra TB husbandry group's advice
1683	Minutes of the CCS2005 epidemiological survey meeting held on 16 <sup>th</sup> January 2007
1684	Note on the monthly TB statistics by Sir David Cox
1685	Occupier consent to the RBCT 2002-2007
1686	Preliminary analysis of cattle movements in RBCT herds
1687	Preliminary results of spatio-temporal analysis - updated
1688	ISG Research Assistants' monthly report
1689	Agenda for the 101 <sup>st</sup> Meeting to be held on 14 <sup>th</sup> March 2007
1690	Minutes of 100 <sup>th</sup> Meeting on 14 <sup>th</sup> February 2007
1691	Monthly statistics on the incidence of TB in cattle
1692	Survival analysis of the time between breakdowns in the reactive areas of the RBCT in

	relation to badger capture: revised analysis
1693	Bovine tuberculosis in cattle and badgers in localised culling areas
1694	Quarterly triplet statistics report
1695	ISG Research Assistants' monthly report
1696	A case-control study of factors correlated with the risk of cattle tuberculosis among herds in three areas of the RBCT in 2004
1697	Project SE3110: molecular genetic analysis of badger social structure and bovine TB
1698	Vaccine Projects Advisory Group update by Professor Doug Young
1699	Minutes of 101 <sup>st</sup> Group Meeting on 14 <sup>th</sup> March 2007
1700	Agenda for the 102 <sup>nd</sup> Meeting to be held on 18 <sup>th</sup> April 2007
1701	Monthly statistics on the incidence of TB in cattle
1702	Project SE3004: multivariate analysis of risk factors affecting tuberculosis incidents in cattle herds – final report
1703	Project SE3036: a quantitative risk assessment on the rôle of wild deer in the perpetuation of TB in cattle - final report
1704	ISG Research Assistants' monthly report
1705	Note of a meeting on 27 <sup>th</sup> February 2007 to discuss future Defra bovine TB research needs from CSL
1706	Agenda for the 103 <sup>rd</sup> & final Meeting to be held on 16 <sup>th</sup> May 2007
1707	Minutes of 102 <sup>nd</sup> Group Meeting on 18 <sup>th</sup> April 2007
1708	Monthly statistics on the incidence of TB in cattle
1709	Comparison of a standard and a detailed badger necropsy protocol to determine the sensitivity of the standard protocol for detecting <i>M. bovis</i>
1710	Project SE3032: the long-term intensive ecological and epidemiological investigation of badger populations naturally infected with <i>M. bovis</i>
1711	RBCT databases and biological samples: data sign-off, archiving all data and materials and future access for researchers
1712	Availability of papers, databases and biological samples
1713	Plans to set up a bovine TB science advisory body
1714	Minutes of CCS2005 epidemiological survey working group meeting on 3 <sup>rd</sup> May 2007
1715	Minutes of 103 <sup>rd</sup> Group Meeting on 16 <sup>th</sup> May 2007
1716	Economic aspects of TB control
1717	Report on the effect of excluding breakdowns with moved-on cattle on the estimated impact of proactive badger culling
1718	Minutes of the 2007 (4 <sup>th</sup> & 5 <sup>th</sup> ) Open Meetings of the Group