

2009 Census Rehearsal Evaluation Geography

December 2009



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2009 Rehearsal – Geography

1. Definition and scope for rehearsal

The scope for the rehearsal was to develop, test and implement systems that would produce the geographic products and geographic information required by the many business areas within census which are dependent on geographic information. They are print, the various strands that make up the field operation, helpline, internet, data capture and coding activity, downstream processing, creation of census outputs and Census Coverage Survey (CCS) work.

The geographic products and information included:

- an address list production system to populate Enumerator Record Books (ERBs) and personalise census questionnaires;
- an Enumerator District Planning (EDP) system to enable Geography to create enumerator workloads to support management of field operations;
- a map production system to enable Geography to produce maps for both census and CCS field staff;
- a Communal Establishment Register (CER) to support the enumeration of Communal Establishments (CE's), Print, Paper Data Coding and Capture (PDCC) and Downstream Processing (DSP);
- a Geography database to support all depending workpackages;
- to supply ad hoc geographic material non Scottish postcode file and offshore file to support PDCC activity; and
- to produce management Information system (MIS) reports.

The scope was also to measure:

- whether the systems and processes developed, worked satisfactorily;
- whether contingency arrangements were adequate;
- whether the geography products were fit for purpose; and
- whether the Geography Integrated Project Team (IPT) met its objectives.

What was tested:

- Geography IPT (Integrated Project Team);
- Postcode Address File (PAF) processing;
- EDP and map production;
- address list production system and address files:
- address list coverage;
- geography database (content, creation, maintenance and update. Security arrangements and availability);
- Communal Establishment Register (CER);
- address coding: resolving address and CE coding gueries;

- system performance;
- data supply arrangements; and
- contingency arrangements.

What could not be tested:

EDP system: No EDP system was available for the rehearsal so Geography planned enumeration districts (ED)s manually. A system of continuous ED planning has now been developed for 2011 and Geography will create and Quality Assure (QA) an early set of Census District (CD) and ED boundaries. EDs will then be updated on a continuous basis with postcode changes. A key advantage to this approach is that planning of the field operations begins much earlier than in previous Censuses.

Census Output Areas (OAs) are created after DSP and outwith the scope of this evaluation.

2. Evaluation findings

Description	Success Criteria	Outcome	Recommendation	Timeframe
Geography IPT	Were IPT objectives met?	Achieved: The scope of the Geography IPT was covered and the geography products created on time. In practice the IPT membership was too big. Full meetings of the IPT proved non productive and so were replaced with small topic specific sub groups which proved a much more effective forum to educate members as Geography's previous census experience was heavily relied upon.	Continue along existing lines.	
Processing the Postal Address File (PAF)	Was PAF processing completed in time for freezing the geography database?	Achieved: The Geography database was updated with postcode information from the October 2008 and January 2009 versions of PAF. The special arrangements put in place to facilitate early processing of PAF worked well.	No change to existing arrangements required but some improvements to the management of technical back up arrangements will be necessary.	Ongoing

Description	Success Criteria	Outcome	Recommendation	Timeframe
Enumeration	Not tested.	Outwith the scope of the	Develop a new planning system to enable	December
District Planning		rehearsal.	Geography to produce first cut planning areas	2009
(EDP) system			early, whilst keeping the Geography database	
		A decision was taken not to	open until the last possible moment so that new	
		produce a full system for the	postcode information could be incorporated into	
		rehearsal, but development	the geography database.	
		was progressed far enough to		
		allow the manual production		
		of EDs (which took only a few		
		days). Whilst this was		
		somewhat of a hybrid		
		approach for the rehearsal, it		
		did bring the benefit of being		
		able to test 'future		
		functionality' whilst ensuring		
		the deadline for producing		
		EDs for the rehearsal was		
		met. It also allowed field		
		operations additional time to		
	D'IED (finalise requirements.		
Enumeration	Did EDs meet	Achieved:	Ensure systems are developed at the rehearsal	
District (ED)	planning criteria?	EDs were created manually	stage and governed by a project board	
planning.		and all met planning	comprising suitably qualified staff for a 2021	
		thresholds.	Census.	
	Was the approach	It would have been beneficial		
	to ED planning	to have been able to assess		
	suitable?	and understand in advance of		
	Suitable:	the rehearsal, the impact of		
		complex planning criteria.		
		This was not fully understood		
		This was not fully understood		

Description	Success Criteria	Outcome	Recommendation	Timeframe
		until after the rehearsal.		
Map production	Were the right maps produced and did they support Field and CCS	The maps were produced to the agreed specifications.		March 2010
	operations?	a) Urban maps Urban maps to support hand delivery were well received by enumerators.	a) No change to the specification for urban hand delivery maps.;	
		b) Rural maps A mix of Ordnance Survey (OS) and General Register Office for Scotland (GROS) maps were used to support follow up in post out areas. Unfortunately they were not used as intended. Instead post out enumerators relied on their local knowledge of the area. As a result we have little evidence, other than that gleaned from our own trial, to confirm a strategy for 2011.	b) Continue with a mix of OS and GROS produced maps for rural post out areas;	
		c) CCS CCS maps were reported as satisfactory with a few comments on map scale.	c) Amend CCS specification to improve the map scale of the end product; and	

Description	Success Criteria	Outcome	Recommendation	Timeframe
		d) Semi rural areas There were no semi rural areas in the rehearsal so no map strategy tested. The map production system worked well.	d) Develop a strategy for maps for semi rural areas.	
Address list production	Did address list production enable successful personalisation of the census questionnaire and ERB?	Achieved: The address list files were produced to timescale for the printer.	Continue to refine existing processes but with some improvements to the management of back up arrangements for technical staff.	Ongoing
Address list coverage	Was the quality of PAF fit for purpose?	Achieved: No adverse comments from Field operations about missing addresses but there were a number of undelivered questionnaires in Lewis and Harris. The actual numbers of new addresses found or old addresses deleted are not yet available The status of the addresses of undelivered questionnaires has been investigated and erroneous records removed from the PAF. However there	Continue to apply planned improvements to the address base; and Ensure the PSP processes address queries raised by Geography in time for the 2011 Census.	Ongoing

Description	Success Criteria	Outcome	Recommendation	Timeframe
		are certain circumstances		
		when the Postal Service		
		Provider (PSP) cannot deliver		
		mail to a legitimate delivery		
		point and non delivery is not		
		necessarily down to PAF		
		error.		
		Geography staff also		
		conducted a quick check of		
		ERBs and whilst some		
		evidence of change was		
		noted, nothing pointed to		
		serious deficiencies in the		
		PAF.		
		The postal service provider		
		was unable to complete the		
		check of post out address		
		queries which GROS		
		generated for the Western		
		Isles before the rehearsal.		
		We therefore have no		
		indication whether our check		
		could have reduced the		
		numbers of undelivered		
		questionnaires or other		
		addressing errors found in the rehearsal.		
Geography	Database created	Achieved:	Continue as planned but with some	Ongoing
database	and populated with	The geography database was	improvements to the management of back up	Origonity
นสเสมสระ	and populated with	The geography database was	Improvements to the management of back up	

Description	Success Criteria	Outcome	Recommendation	Timeframe
	the relevant information and updated with new postcode information.	created and populated as required by the Geography IPT. Some requirements for geography information were made known late in the day, but this was not unexpected. The geography database was successfully updated with new postcode information.	arrangements for technical staff.	
Common Establishment Register (CER)	Was the CER delivered on time for the Rehearsal and was it fit for purpose?	Achieved: No adverse comments were reported by Field Operations Branch (FOB). Geography carried out a post census check on the communal ERB's which revealed one new home had been found during the field operation and noted that a few hotels/guest houses/B&Bs had been deleted. The new home had been opened after the Geography database had been frozen. We are awaiting further feedback from the rehearsal as a result of data capture and coding activity though we're aware of one instance where an address was wrongly	Continue with existing plans for maintaining the CER	Ongoing

Description	Success Criteria	Outcome	Recommendation	Timeframe
-		classified as household when		
		it should have been a CE.		
Resolving	Queries resolved	a) Geography did not receive	a) Clarify Geography's role in resolving queries	March
address and CE	correctly and on	many genuine queries to	in 2011 Census.	2010
queries from the	time?	resolve, although we did		
Processing site.		review all of the address		
		queries that appeared in the		
		query log resolved by staff at		
		the processing site. There		
		were no serious issues arising but we did notice enumeration		
		address queries appearing in		
		the query log when the		
		postcode on the form was		
		correct and valid for the ED.		
		Continuing along these lines		
		could result in an excessive		
		number of queries in 2011		
		b) An Excel spreadsheet was	b) Develop a system to process coding queries	
		used to record coding queries	that allows multi user access.	
		for authority staff to resolve.		
		Updating the spreadsheet was		
		difficult because many users		
		required simultaneous access		
		and this would be impractical		
		in 2011.		
		No CE coding queries were		
		received.		
		10001704.		

Description	Success Criteria	Outcome	Recommendation	Timeframe
Supply of other geographic material to support Paper Data Capture and Coding: Non Scottish postcodes; Offshore postcodes; and British Forces Post Office (BFPO).	Was the relevant material supplied?	Geography supplied this information but it is not clear whether this information was needed or not.	Geography to clarify what material is required.	Jan 2010.
External data supply arrangements	Were they effective?	Achieved: Arrangements to ensure the timely delivery of PAF worked well. There is a service level agreement (SLA) to govern the supply of Mastermap and these service levels were met.	No change to current arrangements necessary.	
System performance: Geographical Information System (GIS)	What was the system availability?	Internal arrangements worked well. The liaison procedures between Geography, GROS IT and SCOTS worked well though not tested to any great degree because no problems emerged. No new issues to report about the Postcode Geography system.	No change to current arrangements necessary.	