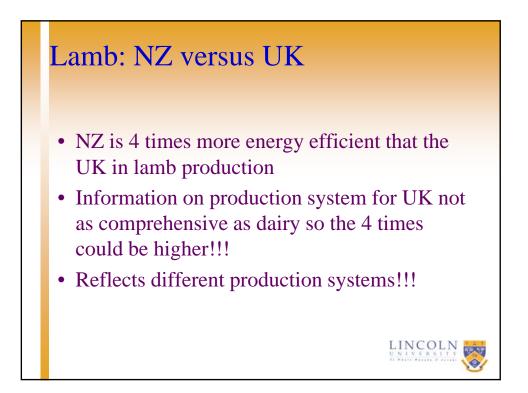


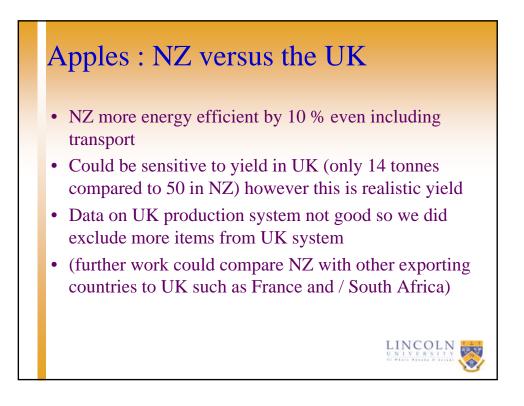
Item	Energy MJ/Tonne MS		CO ₂ Emissions kg CO ₂ /Tonne MS	
	NZ	UK	NZ	UK
Direct energy (diesel, elec.)	9,558	14,482	385	847
Indirect energy (fertiliser, feed, chem.)	11,331	32,877	739	1,950
Capital energy (tractors, buildings)	2,023	1,009	174	124
Total Energy	22,912	48,368	1,298	2,921
Shipping (NZ to UK) (17,840 km)	2,030		125	
Total Energy Input/Emissions	24,942	48,368	1,423	2,921



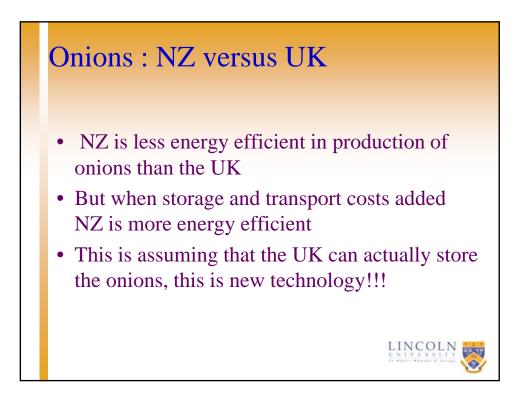
Item	Ener MJ/Tonne		CO ₂ Emissions kg CO ₂ /Tonne carcass		
	NZ	UK	NZ	UK	
Direct sub total	4,158	17,156	256	1,117	
Indirect sub total	3,698	27,452	241	1,607	
Capital sub total	731	1,251	66	125	
Total Production	8,588	45,859	563	2,849	
Shipping NZ to UK (17,840 km)	2,030	-	125	-	
Total Production Energy Input/Emissions	10,618	45,859	688	2,849	



Item	Energy MJ/Tonne apples		CO ₂ Emissions kg CO ₂ /Tonne apples	
	NZ	UK	NZ	UK
Direct subtotal	573	2,337	30	152
Indirect subtotal	300	624	25	34
Capital subtotal	78	-	6	-
Total Production	950	2,961	60	186
Cold storage (UK 6 months)		310		13
Shipping (NZ to UK) (17,840 km)	2,030		125	
Total Energy Input/Emissions	2,980	3,271	185	199

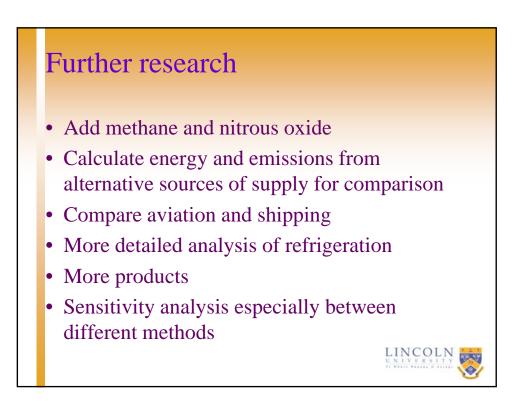


Item	Energy MJ/Tonne onions			nissions nne onions
	NZ	UK	NZ	UK
Direct subtotal	342	245	23	16
Indirect subtotal	427	367	32	20
Capital subtotal	51	66	5	6
Total Production	821	678	59	42
Post harvest				
Grading	39	62	1	3
Cold Storage (UK 9 months)		3,106		129
Shipping (NZ to UK) (17,840 km)	2,030		125	
Total Energy Input/Emissions	2,889	3,846	185	174

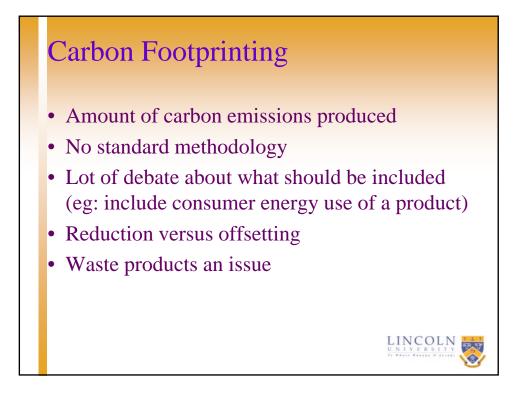


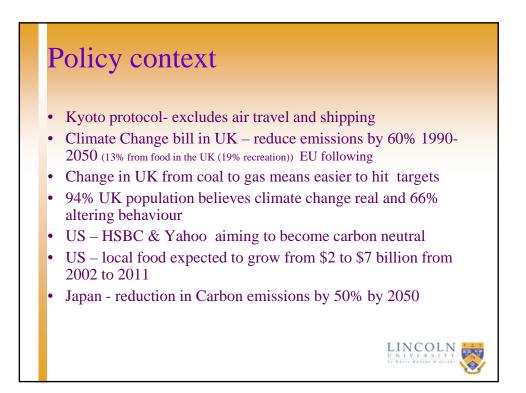
Lincoln Food mile report Overall response to report was 'very positive'! Irate emails between certain NGO's !!! Some minor comments from Silsoe and we redid figures using their methodology and we

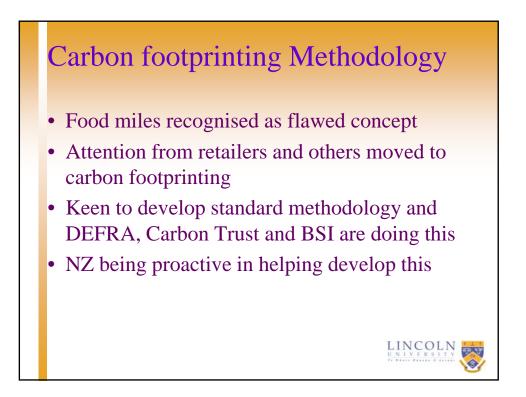
came out better!

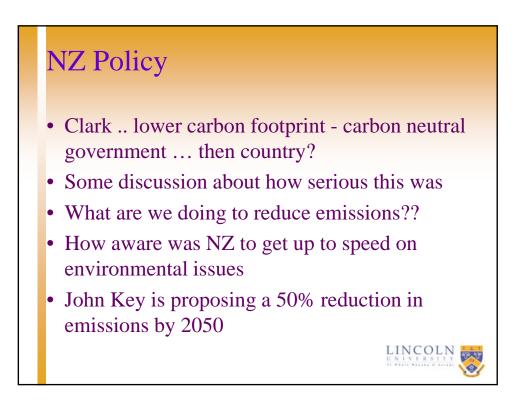


LINCOLN









Who's doing what

- Carbon Trust labelling of food in UK (and have to make reductions in two year period to keep label)
- Tesco's carbon footprint of 70,000 products!
- M & S investing 200 million pounds
- Carbon footprint calculators MFE first part is meat consumption!

LINCOLN





- EU Single Farm Payment subsidises farmers to comply with environmental criteria and will include carbon footprinting
- EU also pays extra for farmers to comply with market assurance schemes including animal welfare
- Market assurance schemes already asking for various requirements and recommendations – biodiversity and environmental criteria generally not compulsory yet but will be soon given the subsidises



