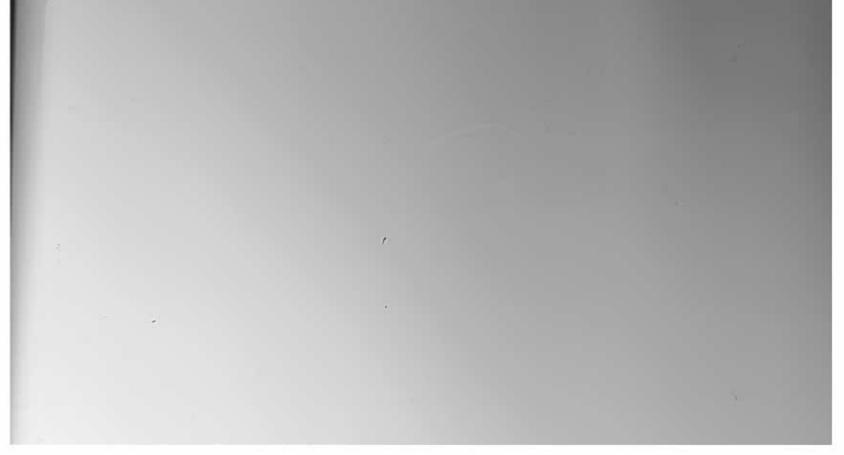
140 June 140	141 200
Literature Cited	PUBLIC ATTITUDES PREDICT COMMUNITY BEHAVIOURS RELEVANT TO THE PORK INDUSTRY
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College of Agricultury and Biological Sciences	Background
	There is a complex set of economic, political, social and personal factors which impact on livestock production and marketing. Facets of public perception, which impact on livestock production practices, and on consumer and other behaviours, need to be understood to ensure industry sustainability. In particular, the attitudes of the general public to pig welfare, meat quality, health risks, environmental factors and farm intensification may affect future pork production practices directly through consumer buying behaviour and indirectly through public and consumer influences on regulatory legislation. This, in turn, may impact on international trade policy set by governments, and the standards set for the moduct he moduct he measured.
Inank you!	of these influences currently are outside the control of the livestock industries. While public concerns about animal welfare are well documented worldwide for a
	European Commission, 2007; Parbery and Wilkinson, 2012; Gracia, 2013; Coleman <i>et al.</i> , 2015), the impact of these concerns for the livestock industries is unclear because there is limited evidence to directly attribute purchasing behaviour to public attitudes about animal welfare. In fact, there has been a small but consistent increase in pig meat consumption internationally over the variant of the source of the sourc
SOUTH DATOTA STATE UNIVERSITY Callow of Articulture and Biodycal Stores	consumption rising from 9.1kg to 15.3kg. However, most of this increase can be attributed to China, with the rest of the world remaining static over this entire period but showing some decline over that past 20 years, falling from 11.3kg in 1984 to 9.9kg in 2015 (Bruinsma, 2016). While many consumers report thinking about animal welfare when they purchase meat and meat products (European Commission, 2007; Department for Environment Food and Rural Affairs, 2011), concerns about welfare do not appear to be major drivers of those purchasing decisions (Coleman <i>et al.</i> 2005; Coleman and Touthast and meat purchasing decisions (Coleman <i>et al.</i> 2005;
	There is accumulating evidence that public attitudes to animal welfare may be more relevant to community behaviours that potentially impact the livestock industries



	PUBLIC ATTITUDES PREDICT COMMUNITY BEHAVIOURS COMMUNITY BEHAVIOURS RELEVANT TO THE RELEVANT TO THE PORK INDUSTRY For the porter of the porter	Background	There is a complex set of economic, political, social and personal factors which impact on livestock production marketing. Facets of public perception, which impact on livestock production practices, and on consumer and other behaviours, need to be understood to ensure industry sustainability. In particular, the attitudes of the general public to pig welfare, meat quality, health risks, environmental factors and farm intensification may affect future pork production practices directly through consumer vargulatory legislation. This, in turn, may impact on international trade policy set by governments, and the standards set for the product by processors and retailers. Many Wile public concerns about animal welfare are well documented worldwide (e.g. Buropean Commission, 2007; Parbery and Wilkinson, 2012; Gracia, 2013; Coleman <i>et al.</i> , 2015), the impact of these concerns for the livestock industries. In public attitudes about animal welfare. In fart, there has been a small but consistent increase in pig meat consumption international y over the livestock industries is unclear because about animal worldwice (e.g. 2015), the impact of these concerns of the livestock industries in unclear because about animal welfare. In fact, there has been a small but consistent increase in pig meat consumption rising from 9.1kg to 15.3kg. Howver, most of this increase can be utal sithuted to China, with the rest of the world remaining static over this entire period in 2015 Bruinsma. 2016). While many consumers report thinking about animal welfare when the purchase meat and mate products (Buropean Commission, 2005; Deleman at the standards to the section a statibuted to China, with the rest of the world remaining static over this entire period in 215 Bruinsma, 2016). While many consumers report thinking about animal welfare when the purchase meat and many static over this about animal welfare when the purchase meat and and products (Buropean Commission, 2005; Deleman at Toukhasti 2006).
hrmsf 140	<ul> <li>Literature Cited</li> <li>Heemstra, J. &amp; T. Bass. (2015). Developing an Environmental Policy Statement for a Farm or Ranch Curriculum Materials. Livestock and Poultry Environmental Learning Center.</li> <li>Heemstra, J. &amp; T. Bass. (2015). Developing an Environmental Learning Center.</li> <li>Accessed at: http://articles.extension.org/pages/331398/developing-an-environmental- policy-statement-for-a-farm-or-ranch-curriculum-materials</li> <li>NRCS (2012). Feed Management. Technical Note 8. Natural Resources Conservation Service, Accessed at: https://elotg.sc.egrouvada.gov/references/public//T/TechNote8. FeedManagement.pdf</li> <li>O'Connor, A. M., Aurermann, B., Bickett, Weddle, D. Nirkhnon, S., Sargeant, J. M., Ramirez, A. &amp; Non Essen, S. (2010). The Association between Proximity to Animal Reading Operations and Community Itealth: A Systematic Review. Plos One, 5(3). doi: partier. Journal.pone.0009330</li> <li>Parker, D. B. (2011). Effectiveness of a Manure Scraper System for Odor Control in Tunnel-Ventilated Swine Finisher Barns. Transoctions of the ASABE, 54(1), 315-324.</li> </ul>	SOUTH DAKOTA STATE UNIVERSITY Camps of Agriculture and Bedagical Sciences	<image/> <image/> <image/> <image/> <image/>



142 July 142		143 5
than they are to purchasing and consumption behaviours. According to Coleman and Toukhsati (2006, p.21) "community behaviours that do not require public expression or public identification" are common in relation to livestock issues and "involve taking advantage of situational opportunities to express an attitude through action". These	The aim in this paper is relationships between p community behaviours.	to describe results from some of our research i ublic attitudes and self-reported pork consumpti
behaviours (e.g., signing petitions, donating money, speaking to colleagues about animal welfare issues) and the public opinions driving them can have a considerable	Study 1	
influence on how Governments either react to publicised 'animal welfare events' or regulate contentious management practices in industry. This is especially the case when concerns are expressed by non-governmental animal welfare or rights	The first study (Colem residents comprising of males. Of these 125 w	The first study (Coleman <i>et al.</i> , 2005) used a random telephone survey to Australian residents comprising of 691 respondents of whom 481 were females and 208 were males. Of these 125 were interview.
organisations. The 'Save Babe' campaign is one such example where community pressure, harnessed by animal welfare/rights organisations, has led to changes in the Australian pork industry. In 2006, Animals Australia, a federation of animal welfare	purchases. Shoppers w two-minute assessmen by a more detailed surv	purchases. Shoppers were interviewed at the point of sale to assess their actual pork purchases. Shoppers were informed that participation involved the completion of a two-minute assessment of their pork purchases ('Point of Sale' aspect) to be followed by a more detailed survey at a later date. Where shoppers acquinesced they used
groups in Australia, laulicited the pare page campaign to agrace against and raise public awareness about the containment of sows in farrowing crates (Animals Australia, 2016). This campaign and the community pressure that followed, led directly to inductive changes wherely the revised Australian Code of Practice has	a series of questions re attitudes to animal wel	a series of questions regarding their pork purchases. The main questionnaire assessed attitudes to animal welfare, some aspects of livestock farming and meat (Table 1).
included changes to the duration that gestating sows can be housed in stalls. Further to this, Coles, a major chain of supermarkets in Australia, subsequently announced	Table 1. Example questions from Study 1.	ons from Study 1.
that Coles Brand fresh pork products will come from sow stall free farms. This practice was subsequently extended to all pork products including bacon and ham (Coles, and sole).	Attitude component Knowledge of farming	Example questions
Not only do community concerns and behaviours impact on how governments react to	procedures in agriculture Attitudes to meat as	moreact which of the named practices are carried out in "Most is to the marked practices are carried out in "Most is to the mark of the second
animal welfare events but they also impact more broadly on the livestock industry's	healthy	
social licence to practice. Animal wellare issues together with issues relating to climate change, water scarcity, and declining biodiversity all threaten farmer's social	High score = high	
license to farm. Social licence to farm is delined by Martin and Snepheard as the latitude that society allows to its citizens to exploit resources for their private	Frequency of hunting	numans" "How often do you hunt for ducks?", "How often do you
purposes" (2011, p. 4). Social license is granted when industries behave in a manner that is consistent, not just with their legal obligations but also with community	Beliefs that meat is fatty	hunt for rabbits?" "Meat is high in cholesterol", "Meat is high in fat"
expectations (Gunningham <i>et al.</i> , 2004; Williams <i>et al.</i> , 2007; Arnot, 2009). Failure to fulfil the obligations inherent to social license can lead to increased litigation,	welfare	"The welfare of farm animals is an important consideration to me", "The welfare domestic pets is an important
increased regulations, and increasing consumer demands all of which hamper the success of industries (Arnot, 2009). According to Martin and Shepheard (2011),	Behaviour to oppose farmine	consideration to me". Expressed dissatisfaction with livestock farming by signing a
working with the community, understanding their opinions towards important issues like animal welfare and the environment and in a manner indicative of conneration	Behaviour to support	pecition, written to a newspaper Expressed support of livestock farming by signing a
rather than working against them in a defensive manner, is the most successful means to addressing threats to social licence. In this light, exploring public opinions towards	Willingness to engage in Welfare activist arrivities	petition, written to a newspaper Expressed willingness to oppose livestock farming by
the livestock animal industry is an important first step to engaging with the community.	Concerns about animals as food	abining a petition, written to a newspaper "Humans should not eat meat", "No animal should die so that I have food"
Within the community there is some evidence to suggest that <i>opinion leaders</i> may lead debate on social issues and avoide a conduit for information from various	Concerns about intensive housing	"Concerned about pigs raised in pens", "Concerned about intensive egg farming"
sources to reach their social groups. Berkman and Gilson (1986) suggest that information received from oninion leaders is nerceived by the nublic as more credible	Concerns about free range Concerns about rare of	Concerned about "Free range egg farming", "Free range pig farming"
		LONCETNED about "Care of your mimula" "results "results".



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145	Trust in available information       Radio         Trust in available information       Radio         Television (e.g., TV news, documentaries)       Print media (e.g., magazines, newspapers, journal articles)         Accessing information on livestock       Read livestock animal welfare related print media (e.g., newspapers, imagazines, scientific papers)         Read or watch livestock animal welfare social network sites, related social networksites, related social network sites, related	Perceived knowledge Perceived knowledge Perceived knowledge The sheep (meat) industry The beef industry The beef industry The pork industry The pork industry The pork industry The perk industry to protect the environment.	<b>Results</b> <b>Consumption of pork</b> In Study 1, self-reported purchases were 1.8kg per month. Of the respondents who were surveyed at a point-of-sale, the average amount purchased per person on a single significantly ( $r=0.39$ , $p<.001$ ). In the second study, amount of pork consumed was not week, with 31% consuming pork at least once a week. In Study 1, a number of variables correlated significantly with self-reported total pork week, with 31% consuming pork at least once a week. In Study 1, a number of variables correlated significantly with self-reported total pork purchases. Concerns about 'animals as source of food', concerns about 'intensive importance of 'promoting welfare' all correlated negatively with total pork purchases ( $r=0.11$ , $-0.15$ , $-0.12$ , $-0.09$ ). All correlations were small, but significant. The belief mortance of 'promoting welfare' all correlations were small, but significant. The belief ( $r=0.11$ , $-0.12$ , $-0.09$ ). All correlations were small, but significant. The belief ( $r=0.11$ , $-0.12$ , $-0.09$ ). All correlations were small, but significant the belief that 'pork is healthy food' correlated positively with self-reported pork purchases ( $r=0.20$ ) as did the belief that 'activists should not be involved in farming issues' ( $r=0.13$ ) purchases ( $r=-0.12$ ). When included in a regression equation, five variables (number that 'pork is high in fat' and 'cholesterol' correlated negatively with such of dogs and cats in the household, concerns about intensive housing of pigs, beliefs engage in welfare activitie activities) accounted for 8% of the variables (number that activists should not be involved, beliefs that pork is healthy and willingness to purchases ( $r=-0.12$ ). When included in a regression equation, five variables (number that activists should not be involved, beliefs that pork is healthy and willingness to morthly pork consumption ( $Fa$ , $w= 8.96$ , $p < 0.1$ ). In Study 2, self-reported frequency of pork consumption correlated negatively with towards eating meat ( $r=0.27$ , $p<0.01$ )
144 June 144	Pork is fatty"Pork is high in cholesterol". "Pork is high in fat"Pigs treated humanely"Pigs have the same right to life as humans". "Pigs have the same feelings as domestic animals"Pork is healthy"Pork is a healthy importance of promotingPork is healthy"Pork is a healthy food.", "Pork is part of a balanced diet" "Pork is animal welfare causes", "It is important to me to be importanceIn addition, respondents were asked about their engagement in activities in support of, or in opposition to, the pork industry.	<b>Study 2</b> In the second study (Coleman <i>et al.</i> , 2016), a total of 479 participants (228 males, 251 females) were randomly selected from all states and territories within Australia. In this study the questionnaire assessed attitudes, behaviours to express dissatisfaction with the Australian livestock industries, the frequency with which respondents consume pork, the frequency with which they access or distribute livestock animal welfare information and the extent to which they trust various sources of livestock animal welfare engagement in activities in opposition to the livestock industries. The questionnaire engagement in activities in opposition to the livestock industries. The questionnaire	Table 2. Example questions from Stud 2.       Table 2. Example questions from Stud 2.         Table 2. Example questions from Stud 3.       Attitudes to livestock welfare humans       Example questions from Stud 3.         Attitudes to livestock welfare humans       Livestock animals being used in livestock animal state and action       Example questions         Attitudes toward eating meat humans       Meat is part of a balanced diet humans       Investock animals being used in livestock animal being used in livestock animal welfare standards in Australian haustries         Attitudes toward the livestock animal welfare standards in Australian humateries       Meat is part of a balanced diet humateries         Trust in people involved in the livestock animal welfare standards in Australian haustries       Trust those responsible for transporting livestock animal welfare on humateries         Ratings of livestock industries       Investock animal sis needed       Investock animal sis needed         Ratings of livestock undustries       Itrust those responsible for transporting livestock animals being used in the livestock animal sis needed         Ratings of livestock welfare       Investock animal handlers to properly care for their animals         Beef (meat)       Beef (meat)         Dary vool       Dary vool         Gasts (meat)       Livestock animal beer (meat)         Dary vool       Dary vool         <



	between latent variables and observe variables reflect loadings for latent variables and numbers above the arrows between latent variables reflect regression coefficients for these hypothesised causal relationships. Goodness of fit of the model to the data is reflected in Cmin/df which measures the discrepancy between the observed covariance matrix and the covariance matrix predicted by the model. An acceptable value is <3.0. RMSEA is a measure of absolute fit and should Be <.05.	<text></text>	
M	(r= 0.24, p<.01), trust in people involved in the livestock industries (r= 0.21, p<0.01), and ratings of livestock welfare (r= 0.26, p<.01). Multiple regression analysis showed that being male and holding positive Attitudes towards eating meat, and positive Ratings of livestock welfare significantly predicted self-reported pork consumption, accounting for 11% of the variance.	<b>Commutity activities</b> The frequencies with which respondents reported being engaged in community behaviours in opposition to the livestock industries are given in Table 3. There was an increase in engagement in these activities between Study 1 (2005) and Study 2 (2014). Most respondents engaged in at least one community behaviour. <b>Tote 3. Perentages of community behaviour</b> in <b>opposition to the livestock industries</b> . <b>Tote 3. Perentages of community behaviour</b> in <b>opposition to the livestock industries</b> . <b>Tote 3. Perentages of community behaviour</b> in <b>opposition to the livestock industries</b> . <b>Tote 3. Perentages of community behaviour</b> is <b>period</b> . <b>Tote 4. Perents in the prediction period peri</b>	



	<b>Discussion</b> The findings showed that while animal welfare attitudes predicted self-reported pork consumption, the amount of variance accounted for was relatively small, being 8% in Study 1 and 10% of the variation in Study 2. These results are consistent with those reported in previous research (Coleman <i>et al.</i> , 2005) and with McCarthy <i>et al.</i> (2004) who found that, while welfare was a significant predictor of pork consumption, the main predictors were health, eating enjoyment and safety. The structural model for Study 1 showed a higher R for predicting community behaviour than did the regression (37% for the model compared to 23% for the regression equation) but a lower R2 for predicting pork purchasing (2% for the model compared to 8% for the regression equation). This suggests that the model was not a good representation of the data. However, the model for Study 2 did align quite well with the regression results.	In both studies, about three-quarters of the sample engaged in at least one of the 13 community behaviours to express their dissatisfaction with the way livestock animals are treated. Speaking to colleagues, family members, or friends and donating money to an animal welfare or animal rights group were the most frequent behaviours. In Study 2, respondents were more likely to speak to friends and colleagues (55.3%), sign petitions (36.3%) and volunteer at a welfare organisation (11.7%) than in Study 1 (30.1%, 25.6% and 3.0% respectively), but were equally likely to have donated money. These results suggest that respondents are more likely to engage in community behaviours that do not require public expression or which involve substantial public exposure. These data indicate that community behaviour patterns are changing, due to actual increases in proactive behaviours such as volunteering and petition signing.	These may reflect an escalation in community activities that may impact on the livestock industries. Altogether, substantially more variation in community behaviours could be accounted for by a combination of demographic, attitude and trust variables compared with pork consumption. Interestingly, in Study 2, actual knowledge of the livestock industries was not correlated with community behaviours. While it was possible to identify a group of people (opinion leaders) who reported being used as a source of animal welfare information by those around them, age was the only demographic variable that distinguished this group, with younger people more likely to be opinion leaders. Membership of an animal welfare group was also an identifying characteristic. Opinion leaders were otherwise discriminated from non- leaders by their attitudes towards the livestock industries and their perceived, but not actual, knowledge of the livestock industries and their perceived, but not the Royal Society for the Prevention of Cruelty to Animals (RSPCA) was the most common response. This may reflect an awareness of the role that the RSPCA has in monitoring animal welfare or rights organisation people engaged with, the Royal Society for the Prevention of Cruelty to Animals (RSPCA) was the most common response. This may reflect an awareness of the role that the RSPCA has in monitoring animal welfare or rights organisations that focus on animal rights. Opinion leaders, as a sub-sample, also nominated the RSPCA as the most trusted source of information (25.7%), with government and industry sources nominated as the most trusted source 12.2% of the time. Animal rights groups received no first nominations by opinion leaders.
148	For Study 2, the model provided a good fit to the data (Cmin/df= 1.85, RMSEA=.042). In this combined model, 8% of the variance in consumption and 42% of community behaviour were accounted for (Figure 2). Figure 2. Structural model of the relationships between attitudes, demographic variables and self-reported consumer and community behaviours. Cmin/df= 1.85, RMSEA= 0.042.	Allowing and the second	In Study 2, people were identified as opinion leaders based on their responses to three questions. The first item asked respondents to indicate, during the last six months, how many people they had told about Australian livestock animal welfare (1=Told no one, 5=Told a number of people). The second item asked respondents to rate the likelihood, compared to their friends, of being asked about Australian livestock animal welfare (1=Not at all likely to be asked, 5=Very likely to be asked). The last item asked welfare (1=Not at all likely to be asked, 5=Very likely to be asked). The last item asked they respondents to overall, indicate in all their discussions, with friends and family respondents to overall, indicate in all their discussions, with friends and family whether they were used as a source of advice on Australian livestock animal welfare (1=Not used, 5=Often used). Of the 479 respondents, 74 were identified as opinion (1=Not used, 5=Often used). Of the 479 respondents, 74 were identified as opinion feaders and they were characterised by a greater proportion that never ate pork compared with the rest of the sample, more concern about welfare issues, greater compared with the rest of the sample, more concern about welfare issues, greater from the there was no difference between opinion leaders and others with respect to while there was no difference between opinion leaders and others with respect to actual knowledge of livestock hubbandry practices, opinion leaders perceived their knowledge of the livestock industries to be greater than that of the remainder of the sample (p<0.01).



MG Mc G G B D C O C C C C C C C C C C C C C C C C C	Given that attitudes have been shown in this survey to be correlated with meat consumption and community behaviours, opinion leader attitudes clearly are	References
	important. However, opinion leader attitudes reflected a less positive view of the livestock industries and lower trust. Importantly, opinion leaders did not appear to be better informed about livestock husbandry practices than the general community, despite believing that their knowledge was high. In order that any discourse about licence to farm be well informed and rational, this group should be engaged in dialogues about pork production.	Anouckie, J. (2014). Amos, Version 23.0. Chicago: IBM SPSS. Animals Australia SaveBabe Campaign. (2016). Retrieved from: https://secure.animalsaustralia.org/appeal/save_babe/. October 2016. Arnot, C. (2009). Protecting our freedom to operate: Earning and maintaining public trust and our social license. Paper presented at The Southwest Nutrition and Management Conference, Arizona, US.
		Berkman, H. and Gilson, C. (1986). ED, Consumer behavior: Concepts and strategies. Thomson South-Western.
ess stry M M O O E I O O	The results of this study show that community attitudes strongly predict engagement in community behaviours related to opposition of the livestock industry, and to a lesser extent, to consumer behaviours such as pork consumption. Approximately 15%	Bruinsma, J. (2016) World agriculture: towards 2015/2030 an FAO perspective. Retrieved from ftp://ftp.fao.org/docrep/fao/005/y4252E/y4252e.pdf. November, 2016.
	of the sample was identified as opinion leaders, who tended to eat less pork, held less positive attitudes towards the livestock industry and engaged in a many more to the second of the second second by somewhat more representative of the	Coleman, G. J., Rohlf, V., Toukhsati, S.R. and Blache, D. (2017) <i>Animal Production Science</i> (Submitted)
À.	community behaviours. Write these data filey be somewhat more represented to such that future research is needed to advance understanding of opinion leaders and ways of engaging them in	Coleman, G., Rohlf, V., Toukhsati, S. and Blache, D. (2015). Public attitudes relevant to livestock animal welfare policy. <i>Farm Policy Journal</i> 12, 45-57
orestry		Coleman, G., Hay, M., & Toukhsati, S. (2005). Effects of consumer attitudes and behaviour on the egg and pork industries. <i>Report to Australian Pork Ltd and</i> <i>Australian Egg Corporation Ltd.</i>
	Acknowledgment This research was funded under the National Animal Welfare RD&E forum by Australian Pork Limited, the former Australian Department of Fisheries and Forestry	Coleman, G., & Toukhsati, S. (2006). Consumer attitudes and behaviour relevant to the red meat industry. <i>North Sydney NSW: Meat and Livestock Australia</i> <i>Limited</i> .
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<ul> <li>European Commission. (2007). Attitudes of EU citizens towards animal welfare Special Eurobarometer (Vol. 270/Wave 66.1).</li> <li>Gracia, A. (2013). The determinants of the intention to purchase animal welfare friendly meat products in Spain. <i>Animal Welfare</i>, 22, 255-265.</li> <li>Gunningham, N., Kagan, R. and Thornton, D. (2004). Social license and environmental protection: why businesses go beyond compliance. Law &amp; Social Inquiry, 29(2), 307-341.</li> <li>Martin, P., &amp; Shepheard, M. (2011). What is meant by the social license? In J. Williams &amp; R. Martin, P., &amp; Shepheard, M. (2011). What is meant by the social license? In J. Williams &amp; CSIRO Publishing</li> <li>McCarthy, M., O'Reilly, S., Cotter, L. and de Boer, M. (2004). Factors influencing consumption of pork and poultry in the Irish market. Appetite, 43, 19-28.</li> </ul>		Department for Environment Food and Rural Affairs. (2011). Attitudes and behaviours around sustainable food purchasing. London: Department for Environment, Food and Rural Affairs.
<ul> <li>Gracia, A. (2013). The determinants of the intention to purchase animal welfare- friendly meat products in Spain. <i>Animal Welfare</i>, 22, 255-265.</li> <li>Gunningham, N., Kagan, R. and Thornton, D. (2004). Social license and environmental protection: why businesses go beyond compliance. Law &amp; Social Inquiry, 29(2), 307-341.</li> <li>Martin, P., &amp; Shepheard, M. (2011). What is meant by the social license? In J. Williams &amp; P. Martin (Eds.), <i>Defending the Social License of Farming: issues</i>, <i>challenges and new directions for agriculture</i> Collingwood VIC Australia: CSIRO Publishing</li> <li>McCarthy, M., O'Reilly, S., Cotter, L. and de Boer, M. (2004). Factors influencing consumption of pork and poultry in the Irish market. Appetite, 43, 19-28.</li> </ul>		European Commission. (2007). Attitudes of EU citizens towards animal welfare Special Eurobarometer (Vol. 270/Wave 66.1).
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