CHAPTER - 3

Review of Literature

		Entropy	
Source	Year	Author	Impact point
Transactions of the ASABE. 2010, 53 (6): 1811-1821.	2010	Singh, V.P.	The entropy theory permits a probabilistic characterization of the rating curve and hence the probability density functions underlying the curve. It also permits a quantitative assessment of the uncertainty of the rating curve. The derived rating curves are tested using field data and are found to be in agreement with the curves obtained by the least square method.

	2016		
BMC	2010	Sun, X.L.;	High complexity is considered
Bioinformatics.		Yong, Z.;	a hallmark of living systems.
2010, 11 (607):		Nikiforova, V.;	Here we investigate the
(22 December		Kurths, J.;	complexity of temporal gene
2010).		Walther, D.	expression patterns using the
			concept of Permutation
			Entropy (PE) first introduced
			in dynamical systems theory.
			Applying the PE complexity
			metric to abiotic stress
			response time series data in
			Arabidopsis thaliana, genes
			involved in stress response
			and signaling were found to
			be associated with the highest
			complexity not only under
			stress, but surprisingly, also
			under reference, non-stress
			conditions.
Current Science.	2010	Mondal, N.C.;	To determine the fractional
2010, 99 (11):		Singh, V.P.	amount of rainfall (called
1560-1569.			natural recharge), marginal
			entropy and transinformation
			of rainfall and depth to the
			water table at selected wells
			were calculated. Then a ratio
			of transinformation to
			marginal entropy of rainfall
			was used as a measure for
			assessing natural recharge.
			assessing natural recharge.
		1	

Thermodynamic Entropy and Social entropy			
Source	Year	Author	Impact point
On the Motive	1950	Clausius, R.	The term "entropy" was coined by
Power of Heat,			Clausius in nineteenth-century
and on the Laws			thermodynamics, and is the subject
which can be			of the Second Law of
deduced from it			Thermodynamics, which states that
for the Theory of			in an isolated thermodynamic
Heat.			system, entropy will either remain
Poggendorffs			constant or increase toward its
Annalen der			maximum, but cannot decrease.
Physick, LXXIX			This means that in an isolated
(Dover Reprint).			system, the system will gradually
			become more and more disordered,
			until it reaches maximum entropy.
			This is a complete state of rest or
			dissolution, with an absence of
			available energy for doing work.
Describing Social	2005	Stepanic,	Combination of social free energy
Systems using		J.; Sabol,	and social entropy is on the one
Social		G.; Zebec,	hand a set of quantities easily
Free Energy and		M.S.	determinable from available data,
Social Entropy;			and on the other hand a set of
Kybemetes, 34 6 :			indicators intuitively connected
857-868.			with social system states. We relate
			the system social free energy and
			levels of organization and
			adaptation. From these measures
			we derive the measure of social
			system adaptation.

D	2011	In 4	Tr. 1
Estimating	2011	Roy, A.	It has drawn up that the higher the
Social Entropy			independency, the individuality
and Social Chaos			gets unleashed and the person will
in Technology			start behaving like a free particle
Socialization			in zigzag movements as has been
Process.			observed by Albert Einstein's in a
Unpublished			typical Brownian movement. The
$\hat{MSc.}(Ag)$ Thesis,			education in a person acts as a
BCKV			propeller and drives in out of the
Mohanpur, West			customized confinement or
Bengal.			defined domain for an individual
			by tradition and norms. This kind
			of extraterrestrial behavior can be
			perceived as entropy per se for an
			apparently state and unmoved
			society. The educational pursuit in
			a family, non integrated, erratic,
			free flying, non committal, may
			add a kind of negentropy which is
			happening in a mundane and
			depletive farming system.
			Cropping intensity and distance
			matrix may experience a marital
			closeness and proximity through
			Eigen Roots and can contribute to
			a new factor called System Factor
			to substantially characterize the
			social entropy.

Social System	2010	Dutta, T.	Concluded that every chaos and
theory and Social			entropy has got a framework to act
Entropy: The			and make the system somehow
Post Modern			operational. They also found that
Approach to			concept of Social entropy would
Analyze			help calculation of residual energy
Extension			or motivation, estimation of
System Function			motivation flow mechanism to
Unpublished			formulate better scientific and
MSc(Ag.)			effective training, motivation,
Thesis, BCKV,			leadership, project monitoring,
Mohanpur, West			teaching learning program,
Bengal.			organizational behavior and
			objective evaluation mechanism.
			It would help measure and adopt
			remedial measure to fight stress,
			morbidity, neuro psychosis and
			psycho-somatic disorder. The
			concept of entropy would help in
			combat and redress conflict, intra-
			group rivalry, leadership,
			intimidation, shift stress etc.

Journal of Food,	2010	Gan, H.;	On this basis, information entropy
Agriculture and		Zhu, Q.L.;	theory is applied to establish the
Environment.		You, J.J.;	function of order degree entropy
2010, 8 (2 part 2):		Wang, L.;	of the water cycle system, which
1062-1066.		Gan, Z.G.;	shows the evolution direction.
		Wang, L.	According to this function and the
			concept of entropy, a lower value
			of order degree entropy indicates
			that the system has a greater order
			degree and will evolve toward
			order, and the lower the value, the
			better the corresponding
			subsystem, the more harmonious
			and organized the whole water
			cycle system, and the more
			optimal the corresponding
			alternative. The alternatives can be
			evaluated and selected by
			comparing the values of the
			entropy. The application of the
			proposed methodology is
			discussed and illustrated in a case
			study of the Haihe River basin.

Mexico's Social	2009	Barboza	The social accounting matrix is a
	2009	C.I.;	fundamental base to analyze
accounting		,	1
Matrix 2004.		Vazquez,	economic policies measure the
Agrociencia		A.J.M.P.;	impact of external clashes and
Montecillo.		Matus,	study the dynamics of markets and
2009, 43 (5): 551-		G.J.A.	the structure of institutions. A
558.			recent matrix named social
			Accounting Matrix for Mexico
			2004 was built and put at the
			disposal of experts, through the
			cross entropy method. The matrix
			obtained is consistent with the
			principles of national accounting.
			Accounting Matrix for Mexico
			2004 was built and put at the
			disposal of experts, through the
			cross entropy method.
Journal of	2008	Dong,	The decrease of crop and garden
	2008	U,	land and the increase of resident,
Fujain		L.M.; Pu,	
Agriculture and		L.J.; Shu	industry, mine and transportation
Forestry		cheng, H;	land caused the change in
University		Zhou, Q.	information entropy of Weijiang
Natural Science.			land use structure. Socioeconomic
2008, 37 (4): 415-			level of whole region is the main
419.			factor that induces change in
			information entropy. Finally, the
			social, economical and
			environmental benefits for use and
			distribution of lands are given.

A Comprehensie	2008	Wu, Y.Q.;	To quantify the benefits and
Benefit	2000	Shao,	impacts of the project and to also
Evaluation for		· ·	1 0
		D.G.;	evaluate its advantages and
the Xiangjiang		Xiao,Y.	weakness, hierarchical assessment
River Basin			index system considers flood-
Rehabilitation			control, the social economy and
Project.			ecological environment. Each
Hydrological			index of the different categories
Science for			within the index system was
Managing Water			normalized and its weight was
Resources in the			determined through an
Asian			information entropy based
Developing			assessment method, including
World, 2008,			both the subjective and the
289-295.			objective assessments; The basin
			treatment project enhanced the
			flood control capability, boosted
			socio-economic development of
			the region and improved the
			ecological environment of the
			basin.

Social Entropy	1994	Bailey, k.	Presents the concept of entropy
Theory. State			theory not as merely a
University of			thermodynamic concept whose
New York press			utility is primarily limited to the
Albeny.			study of heat and temperature
			change, but rather as a generic
			concept that is inversely related to
			the amount of work done. Thus, it
			is potentially applicable to any
			system where energy exists in
			quantities sufficient to permit
			work. Entropy has the potential to
			be one of the most important
			generic concepts available for
			linking theory and research on all
			life support systems. All life
			support systems, in order to be
			sustainable, must possess
			sufficient levels of energy. And
			information. However, merely
			having available energy and
			information is not enough for
			sustainable life support. This
			energy must be used effectively to
			do work; with the end result that
			the entropy is not permitted to rise
			to uncomfortable levels.

Enthalpy-	1991	Ozilgen,	Thermal death kinetics of
Entropy and	1771	M.;	Leuconstoc mesenteroides and
Frequency Factor		Durkan,	Basillus coagulans were studied
Activation		A.; Ulgen,	experimentally in pH adjusted
Energy		N.	orange juice and glucose or
Compensation		11.	sucrose added apple juice,
Relations for			respectively. The frequency factor
microbial death			and activation energy of these
in fruit juices.			processes were calculated by
Lebensmittel			using the Arrhenius expression.
Wissenschaft and			
			The activation entropy and the activation enthalpy were
Technology. 24			1 2
(4): 378-381.			calculated with analogy between the unimolecular chemical
			reactions and the microbial death
XX 10 G	1000	m 111	kinetics by using Eyring's theory.
Welfare, Society	1982	Travellion,	Encompasses the situation where
and the Social		S.	the focus is given to the clients'
Worker			treatment during the moment of
TREVILLION			transition between social
Br J Soc Work.			categories and thereby denied a
12 : 23-33.			place in society. An opposition is
			accordingly presumed to exist
			between Welfare and Society, to
			intrude on the relationship
			between social worker and client,
			constituting a pressure to resolve
			the tensions produced by anomaly
			through the imposition of a
			welfare identity on the client. In
			conclusion, it is suggested that
			behind the apparent 'crisis' in
			social work lies a crisis in the
			management of social entropy.

On the motive	1850	Rudolf, C.	In nineteenth-century
power of heat		,	thermodynamics, and is the
and on the law			subject of the Second Law of
which can be			Thermodynamics, which states
deduced from it			that in an isolated thermodynamic
for the theory of			system, entropy will either remain
heat.			constant or increase toward its
Poggendroffs			maximum, but cannot decrease.
Annalen Physick,			This means that in an isolated
LXXIX (Dover			system, the system will gradually
Reprint).			become more and more
			disordered, until it reaches
			maximum entropy. This is a
			complete state of rest or
			dissolution, with an absence of
			available energy for doing work.
The Social	1947	Danial. K.	Revealed that open-systems theory
Psychology of			seems to us to permit assumption
Organisations, 2			of entropy, the necessary
(4): 3-7.			dependence of any organization
			upon its environment. The open-
			system concepts of energy, input
			and maintenance point to the
			motives and behaviour of the
			individuals who are the carriers of
			energies input for human
			organizations; the concept of
			output and its necessary
			absorption by the larger
			environment also links the micro-
			and macro levels of discourse.

		Adoption	
Source	Year	Author	Impact point
Farmer adoption of improved	1999	Balasubramanian.V.; Balasubranaian.V.;(ed);	Many technical factors and management
nitrogen		Ladha, J.K. (ed);	practices constraints the
management		Denning, G.L.	adoption of improved
technologies in			technologies including
rice farming;			efficient N-management
technical			techniques; (a) poor
constraints and			water control; (b) low
opportunities for			plant population; (c)
improvement,			partial nutrient
Resource			application; (d)
management in			insufficient weed control;
rice system;			(e) untimely sowing,
nutrients,			transplanting, weeding,
Nutrient Cycling			and/or harvesting; and (f)
in			poor post-harvest
Agroecosystems.			processing.
1999, 53 : 1, 93-			
101.			
Adoption	1999	Borah, B.C.;	The paper analyzed the
behavior of			recommended
rural farmers of			technology adoption
Assam towards			behaviors of fish farmers
different			in five villages within a
aquaculture			40 km. Radius of Assam
technologies,			Agricultural University,
Indian Journal			India. Reasons for non
of Hill Farming,			adoption/partial adoption
1999, 12 : 1-2,			of aquaculture
52-57.			technologies were high
			investment followed by
			inadequate availability of
			finance and of inputs.

Evaluation of	1999	Yadav, Y.P.; Singh, B.;	It was observed that,
frontline		Kumar, A.; Singh, B.;	there was a wide gap
demonstration		Kumar, A.	between potential yield
trial, on mustard			and demonstration plot
in South-			yields of mustard due to
Western Region			factors including soil
of Haryana			fertility, site specific
Agricultural			management problems,
University,			and rainfed conditions in
Journal of			some demonstrations.
Research.			The extension gap was
(1999), 24 : 1-2,			lower than the
39-42.			technology gap, but there
			was still a need to
			educate farmers in
			adoption of improved
			technologies.
Technological	1999	Soni.S.;	The finding related to
status (adoption		Kurmavanshi,S.M.;	non –adoption of modern
pattern) of		Soni, S.N.	agricultural technologies
soyabean			indicated that lack of
cultivation in			awareness was the
district Sagar of			prominent constraints
Madaya			followed by high cost of
Pradesh. Crop			inputs. Other constraints
Research Hiasr.			were; Lack of credit
1999, 18 : 1,			facilities, lack of capital
150-154.			and non- availability of
			inputs at times.

Partial adoption	1990	Szmedra, P.I.;	Based on a dynamics
of divisible		Wiezstein, M.E.;	theoretical model, an
technologies in		Meclendon, R.W.	empirical application is
agriculture.		,	used to assess the
Journal of			adoption of integrated
Agricultural			pest management (IPM)
Economics			with and without
Research.			irrigation. Results
(1990), 42 : 3,			indicate that the degree
20-26; BLDSC.			of new technology
,			adoption may depend on
			the extent of the risk. For
			example, strongly risk
			averse producers who use
			dry land technology may
			only partially adopt IPM,
			and producers who
			irrigate to significantly
			decrease variation in
			yield and returns may
			also only partially adopt
			IPM.

Kaufman,	1975	Villages' upword	A comporative study in
Harold F.	1973		A comparative study in
		Bound; A Study of	six Punjab villages, has
Avatar Singh,		Technological Change	shown that the more
and Satadal		in the six Punjab	distinct the leadership
Dasgupta.		Villages, Calcutta:	structure in a community
		Editions Indian.	the higher the level of its
			adoption of agricultural
			innovations. According
			to study high adoption
			villages had a well-
			recognized leadership
			structure based on a high
			degree of consensus
			among villagers, the low-
			adoption villages had a
			rather diffused leadership
			structure based on a low
			level of consensus among
			villages.
Social Training	1968	Merton, R.K.	Whether an individual
and Social			should or should not
Structure, New			adopt an innovation is
York, Free			often difficult to
Press.			determine. The
			classification as to
			whether or not ad
			adoption is rational or
			not can sometimes be
			made by an expert on the
			innovation under study.
			Through lack of
			knowledge or through
			inaccurate perceptions,
			the individual evaluation
			of an innovation may not
			agree with an expert.
	1		agree with an expert.

Adoption	1966	Pareek,	U.	and	The idea of one hundred
Quotient: A		Chattopa	dhyay, S	S.N.	percent adoption is
measure of					impracticable, especially
Multipractice					in the case of Indian
Adoption					farmers. An innovation
Behaviour,					frequently undergoes
Journal of					significant modifications
Applied					to suit the local
Behavioural					conditions and other
Science, 2: 95-					constraints sometime
108.					stand in the way of the
					farmer being able to use
					an innovation to its
					fullest extent.

An Ordinal	1962	Mason, R.G.	A decision to adopt or
Scale for			reject is often not the
Measuring the			terminal stage in the
Adoption			innovation decision
Process in			process. It was found that
Wilbur			Oregon farmers sought
Schramm (ed),			information after they
Studies of			had decided to adopt, as
Innovation and			well as before. At the
Communication			confirmation stage the
to the Public.			individual (or some other
Standford, CA,			decision making unit)
Standford			seeks reinforcement of
University,			the innovation decision
Institute for			adopt or reject the
Communication			innovation if exposed to
Research C (E).			conflicting messages
			about the innovation. At
			the confirmation stage,
			the individual seeks to
			avoid a state of
			dissonance or to reduce it
			if it occurs.

	ion:		
Source	Year	Author	Impact point
Annual-Review-	2012	Moosekian,	First recognized in 1895, X-ray
of-Food-Science-		S.R.; Jeong,	irradiation soon became a
and-Technology.		S.H.; Marks,	breakthrough diagnostic tool for
2012; 3: 493-510		B.P.; Ryser,	the dental and medical
		E.T.	professions. However, the food
			industry remained slow to adopt
			X-ray irradiation as a means for
			controlling insects and microbial
			contaminants in food, instead
			using gamma and electron beam
			(E-beam) irradiation. However,
			the reinvention of X-ray
			machines with increased
			efficiency, combined with recent
			developments in legislation and
			engineering, is now allowing X-
			ray to actively compete with
			gamma irradiation and E-beam as
			a microbial reduction strategy for
			foods. This review summarizes
			the historical developments of X-
			rays and discusses the key
			technological advances over the
			past two decades that now have
			led to the development of several
			different X-ray irradiators
			capable of enhancing the safety
			and shelf life of many heat-
			sensitive products, including
			lettuce, spinach, tomatoes, and
			raw almonds, all of which have
			been linked to high profile outbreaks of food borne illness.
			outbreaks of food borne filness.

Annals-of-	2012	Mak,	The common perception of
Tourism-		A.H.N.;	globalization as a threat to local
Research. 2012,		Lumbers,M.;	gastronomic identities is
39 (1): 171-196.		Eves, A.	contrasted by its other facet, as an
			impetus that opens up new
			opportunities for reinvention of
			local gastronomic products and
			identities. Relevant perspectives
			and theories of globalization are
			reviewed to provide a theoretical
			framework for the study. Key
			dimensions underlying food
			consumption in tourism are
			elucidated, and the impacts of
			globalization on the culinary
			supply and tourist food
			consumption are discussed. A
			conceptual model is developed in
			an attempt to illustrate the
			influence of globalization on food
			consumption in tourism. This
			study concludes that from the
			world culture theory perspective,
			globalization can be an impetus
			to reconstruct or reinvent local
			gastronomic traditions and
			particularities.

Journal-of-	2002	King, J.	Suggests a reinvention of
Vacation-			destination marketing
Marketing. 2002,			organizations to ensure that they
8 (2): 105-108.			are able to keep abreast of and
			capitalize upon the new realities
			of the tourism and travel market.
			Such a major reinvention will
			require a dramatic change in
			strategies, the structures and
			skills that underpin them, the
			scope of their operations and
			even their direction and the rules
			by which they have previously
			played.

Rural Sociology.	1996	Mooney,	In recent years, several US
1996, 61 (4): 559-		P.H.;	agricultural cooperatives have
576.		Roahrig, J.;	undergone significant
		Gray, T.W.	restructuring. Some have been
			taken through a conversion
			process and have been
			reorganized as 'investor-oriented
			firms' (IOFs). This phenomenon
			has attracted the interest of
			agricultural economists, but it has
			not been analyzed by
			sociologists. An argument is
			made that a re-privatization
			discourse of neoclassical
			economics has effectively
			depoliticized discussion about the
			future of cooperative enterprise.
			It is further argued that a re-
			politicization of cooperation is
			necessary in order to assure the
			protection of extra-economic
			values and oppositional discourse
			that is embedded in the historical
			development of cooperative
			practices and institutions. The
			focus is on the role of expert
			discourse as it relates to the
			reinvention of cooperative
			institutions in the agricultural
			economy. It is argued that this
			discourse would be improved by
			greater attention to historical and
			sociological forces, rather than
			remaining narrowly focused on
			economism.

The diffusion of	1976	Roling, N.	Adopters generally think that
innovations and			reinvention is a desirable quality.
the Issue of			They emphasize or even over
Equity in Rural			emphasize the amount of
Development			reinvention that they have
Communication			accomplished. The choices
Research, 3: 155-			available to a potential adopter
170. C (E).			are not just adoption or rejection;
			modification of the innovation or
			selective rejection of some
			component of innovation may
			also be options.

Rejection				
Source	Year	Author	Impact point	
Translating	2010	Dodge,	Adolescent chronic antisocial	
models of		K.A.;	behavior is costly but	
antisocial		McCourt,	concentrated in a relatively small	
behavioural		S.N.	number of individuals. The	
development into			search for effective preventive	
efficacious			interventions draws from	
interventions			empirical findings of three kinds	
policy to prevent			of gene by environmental	
adolescent			interactions is 1. Parenting	
violence.			behaviors mute the impact of	
Developmental			gene; 2. Genes alter the impact	
Psychology,			of traumatic environmental	
2010; 52 (3):			experiences such as physical	
277-285.			abuse and peer social rejection;	
			and 3. Individuals and	
			environments influence each	
			other in a dynamic development	
			cascade.	

Cultivating fartile	2005	Castle, D.;	To realize the notantial hanafits
Cultivating fertile	2003		To realize the potential benefits of plant-derived vaccines,
ground for the		Dalgleish, J.	1 / 1
introduction of			especially for developing
plant-derived			countries in which health
vaccines in			inequalities are most acute social
developing			challenges must be anticipated
countries.			and addressed in a way that will
Vaccine, 2005;			foster concrete policy
23 (15): 1881-			alternatives. The ultimate aim is
1885.			to minimize the risk of
			premature social rejection of
			plant derived vaccine.
Sociotropy and	2003	Hayaki, J.;	Studies of interpersonal
bulimic		Friedman,	functioning among individuals
symptoms in		M.A.;	with bulimia nervosa
clinical and non		Delensky,	consistently reveal issues of
clinical samples.		S.S.;	social dependency, need for
International		Brownwell,	approval, and fear of rejection.
journal of Eating		K.D.	These themes are conceptually
Disorders. 2003;		11.2.	related sociotropy, a cognitive-
34 (1): 172-176.			personality factor that has been
34 (1). 172 170.			implicated in the development
			and maintenance of depression.
			Individuals high in sociotropy
			are keenly invested in attaining
			others approval and avoiding
			social rejection.

	1	ı	1
An Ordinal Scale	1962	Mason, R.G.	
for Measuring the			or reject was often not the
Adoption Process			terminal stage in the innovation
in Wilbur			decision process. Mason found
Schramm (ed),			that Oregon farmers sought for
Studies of			information after they had
Innovation and			decided to adopt, as well as
Communication			before. At the confirmation stage
to the Public.			the individual (or) some other
Standford, CA,			decision making unit) sought
Standford			reinforcement of the innovation
University,			decision to adopt or to reject the
Institute for			innovation if exposed to
Communication			conflicting messages about the
Research C (E).			innovations. At the confirmation
			stage, the individual sought to
			avoid a state of dissonance of
			reduce it, if it occurred.
Reinvention in	1980	Rice, R.E	Opined that adopter generally
the innovation		and Rogers	, thought reinvention was a
process		E.M.	desirable quality. They
Knowledge. 1:			emphasized or even over
499-514.			emphasized the amount of
			reinvention that they had
			accomplished. The choices
			available to a potential adopter
			were not just adoption or
			rejection; modification of the
			innovation or selective rejection
			of some component of
			innovation might also be options.

Diffusion technology transfer and implication; Thinking and talking about change knowledge. 8 (2): 303-322.	1986	Eveland, J.D.	Noticed the two different types of rejection in innovation decision process. These were active rejection and passive rejection.
Noticed the two different types of rejection in innovation decision process. These were active rejection and passive rejection.	1995	Rogers	Rejection is a consequence of innovation-decision process. Rejection is a decision not to adopt an innovation. This phenomenon is intra-decisive and cognitive in nature. The innovation decision process can just as logically lead to a rejection decision as to adoption. In fact each stage in the innovation decision process is a potential rejection point. For Instance it is possible to reject an innovation at the knowledge stage by simply forgetting about it after gaining initial awareness and knowledge.

Discontinuance				
Source	Year	Author	Impact point	
The	2009	Miller, M	. Revealed that high rate of	
discontinuance of		And	discontinuance by one time	
environmental		Mariaola, M	adopters of a suite of	
technologies in			conservation farm technologies	
humid tropics of			currently promoted by Earth	
Costa Rica:			University. While studying to	
Results from a			investigate why some farmers	
qualitative			discontinue previously adopted	
survey. Journal			environmental technologies	
of International			while others continue to use	
Agricultural and			them. It was found that factors	
Extension			springing from the wider	
Education. 2009;			socioeconomic context such as	
16 (1): 31- 42.			change in farming practices or	
			the devolution of responsibility	
			for maintenance to a sole	
			individual.	

Environment-	2006	Acharya,	This study was conducted to
and-Ecology.		S.K.;	predict the discontinuance
2006; 24(3): 689-		Pradhan, K.;	phenomena in the process of
696		Biswas, S.	technology transfer based on
			agro-economic and psychosocial
			factors. The data were gathered
			from 200 farmers in villages of
			West Bengal, India. Results
			revealed that discontinuance
			phenomenon is a critical
			eventuality, which would
			introduce lot of factors for
			analyzing socialization
			behaviour of a performing
			farmer. It was found that farm
			size, educational attainment,
			scientific orientation, attitude
			towards discontinuance
			contributed predominantly in
			characterizing the technology
			socialization process in the form
			of discontinuance visa-vis.
			selective elimination. Also, the
			process of discontinuance has
			emerged as an integral character
			of high value farmers who could
			benefit at the innovative
			technologies against a better
			social opportunity.

Assessing	2003	Van, T. D.	Found that end of subsidies and
Agricultural			educational programming
Development			explained the majority of
Interventions in			discontinuance. Additional
the Western			social and economic factors that
Highlands of			played a lesser role included that
Guatemal: A			time demands of new
Farmer Centered			technologies compared to
Approach.			traditional farming technique
Unpublished			and barriers faced by farmers in
Masters' Thesis			obtaining the supplies needed to
Department of			continue to use the technologies.
Resource			Also found that when farmers
Development.			were able to see clear economic
Michigan State			benefits they tended to continue
University.			using the technologies even after
			subsidies were unavailable.
Discontinuance	2003	Kielmeyer,	Refers to as completion
of Innovation:		G.	discontinuance which occurs
Social Network			when an innovation has served
Characteristics'			its purpose and is no longer
Product			needed and also identified what
Attributes and			he terms the "hassle factor" a
Adopter Traits			"more than petty annoyance"
Related to Post			that single handedly causes
Adoption			individuals to discontinue the
Behaviour.			use of an innovation. The hassel
Unpublished			factors occurs when technical
Dissertation.			problems associated with the
Department of			innovation are not adequately
Speech			addressed, when installation is
communication.			difficult and when help is
University of			unavailable or offered by
Illinois at			unhelpful staff members.
Urbana-			
Campaign.	1		

Other Side of	2003	Koalwole	Found that the majority (55.2 man
	2003	Koaiwoie	Found that the majority (55.3 per
Farmers'			cent) of the farmers in the study
Adoption			area had low level of
Behaviour Forms			discontinuance were identified.
of			Immediate; Gradual; and rapid
Discontinuance.			based on the nature of
Journal of			innovation and farmers situation.
Extension			Natural hazards, uncertainty in
System. 19 (1):			weather conditions economic
70-80			constraints senility, and ill health
			were five major causes of
			discontinuance. Significant and
			positive regression relationship
			between sex and fatalism with
			discontinuance while significant
			and negative relationship was
			found between family size and
			availability of the innovation
			with discontinuance.
Diffusion of	2003	Rogers, E.M.	An important component of the
Innovations Fifth			innovation-decision making
Edition. Free			process which has received little
Press. New York.			recent research attention is the
11000.11011 10111			discontinued adoption behaviour
			which is the decision to reject an
			innovation after having
			previously adopted it.

Innovation	2002	Ifenkwe,	Results indicate a high level of
Discontinuance	2002	G.E.	awareness for most utilization
behaviour and its		G.L.	forms, as well as high rate of
implication for			discontinuance. Adoption
agro technology			constraints were found to include
transfer: Case of			availability of alternatives and
household			_
			disenchantment with the
consumption of			performance of the innovation.
soybean. Journal			
of Sustainbale			
Agriculture and			
the environment			
4 (1): 133-138.			
Abandoned	1993	Ogunfiditimi.	It has been observed that many
adoption: Why		T.	adopters of new innovations,
adopters			especially in developing
discontinued use			countries, either temporarily set
of previously			aside or completely abandon
adopted			such innovations over a period
innovations,			of time. In an outreach project
Journal of			for maize and cassava in Oyo
Extension			state and cocoa in Ondo state in
<i>Systems.</i> 1993, 9 :			Nigeria, the reasons for
1-2			abandoned adoption were
			identified. The most important of
			these were lack of stable back-up
			support services and untimely
			supply of inputs.
A survey of	1992	Reinemeyer.	The most common reasons for
ovine parasite	1792	Kememeyer.	discontinuance were
control practices			dissatisfaction with the clinical
in Tennessee.			response after treatment and
			1 -
Veterinaray			inconvenience of administration.
Parasitology.			
42 (1/2): 111-122			

House hold time	1991	Ikpi	Shows that where farmers have
allocation- the		1	to adopt a new crop technology
ultimate			that shifts time from their
determinant of			farming to home production
improved			activity sector, the probability
agricultural			and rate of adoption of such
technology			technology are higher. Also as
adoption in			family time is shifted away from
Nigeria: an			the farming sector to home
empirical activity			production sector, the economic
inter phase			impact index increases.
impact model.			
Proceeding of the			
21 st international			
conference of			
Agricultural			
economists,			
Japan. 22 nd -29			
August 1991 pp			
481-501			
Adoption,	1991	Mascarenhas,	Innovation discontinuance is
discontinuance		B.	conceptually very different from
and retention of a			that of innovation adoption
capital goods			because adoption is concerned
innovation			with the initial decision, whereas
Journal			continuation or discontinuation
Management			refers to ongoing commitment
Studies. 23: 92-			and the availability of the
101.			resources necessary to sustain
			use.

A study on the adoption behavior of farmers in respect of improved agricultural practices, <i>Orissa Journal of Agricultural Research</i> . 1991, 4: 3 - 4, 181-186.	1991	Mohapatra , B.P.; Kanuugo, A.P.; Sangram Sing , S.P.	Partial adoption was noted for plant protection measures and fertilizer use. The reasons for non-adoption of inputs water; time, high costs, labor shortages and lack of knowledge. Friends and neighbors seem to be the best sources for learning about new ideas.
Technological behaviour of dairy farmers in a rural area of southern Chile. Archivos de Medicina Veterinararia. (1990); 22 (1); 35-44.	1990	Amtmann. C.A.; Olivares, L.	The technological behavior of commercial and dairy farmers living in a rural area in S. Chile was analyzed using a social survey. The results indicate that these were a slight increase in the adoption rates of new technology in comparison with previous studies. Discontinuance of techniques, mainly because of the instability of agrarian policies or assistance services were pointed out as the major barriers in the dissemination of technological improvements.

Discontinuance	1967	Leuthold,	Concluded that the rate of
of Improved		F.O.	discontinuance was as important
Farm Innovation			as the rate of adoption in
by Wisconsin			determining the level of adoption
farm Operators.			of an innovation at any particular
PhD			time and reported that the per
Dessertation.			centage of discontinuance
University of			among Canadian farmers ranged
Wisconsin			from 18 per cent for innovators
Madison.			and early adopters, to 24 per cent
			for early majority to 26 per cent
			for late majority, to 37 per cent
			for laggards.