



IASRI

newsletter



Volume XVII

July-September, 1991

No. 3

A Within Year Growth Model for Crop Yield Forecasting

A study was carried out to develop a within year growth model for forecasting crop yield as an alternative to between year models. In between year models, yield forecast is obtained by substituting the current year weather/plant data in the model developed from previous years. The model which uses repeated observations on growth data from the current year to estimate the parameters needed to forecast the dependent variable (yield component (s)) at maturity is called within year growth model. In this context 2 years' data on wheat and

rice crops were collected during 1987-88 and 1988-89 from research farm of IARI, New Delhi. Data on total dry matter accumulation and head/panicle weight were collected at about 6 weeks after sowing and thereafter at weekly intervals till harvest.

Logistic growth models were fitted to data on total dry matter accumulation and head/panicle weight collected at different sampling dates through non-linear regression techniques. Results revealed that logistic growth model can be

used to forecast total dry matter at maturity about one month before harvest in wheat and rice whereas forecast of head/panicle weight can be made about 15 days advance of harvest.

Total dry matter as well as head weight at maturity were over estimated in general when partial data were used except in rice during 1988. Logistic growth model was modified to adjust for over estimation in total dry matter and head weight at maturity in wheat and rice.

Sample Survey for Estimation of Inland Fishery Resources and Catch from Them

A pilot sample survey to estimate inland fishery resources and catch was taken up by the Institute in three districts of Orissa viz. Cuttack, Sambalpur and Bolangir. Fresh water ponds and tanks were covered in the first phase of the survey. The sampling design followed was two stage stratified sampling with blocks being the first stage

units and gram panchayats as second stage units for the estimation of area under ponds/tanks. For estimation of fish catch, three stage stratified sampling design was used. A further selection of four water units from each of the selected gram panchayat was made.

The inventory of all the water units showed that 5278 water units

existed in the 10 selected blocks of district Cuttack, 447 water units in the 3 selected blocks of district Sambalpur and 433 water units in the 2 selected blocks of district Bolangir. The average area per water unit in the selected blocks being 0.098 ha, 0.742 ha and 0.511 ha in the districts of Cuttack, Sambalpur and Bolangir respectively.

Rainfall was the main source of water in the selected blocks of the three districts. The water units mainly used for fish cultivation were 30.7% in district Cuttack, 14.5% in district Sambalpur and 19.9% in district Bolangir. Silting was reported to be the main problem in the three selected districts. Weeding was not a major problem in district Cuttack, whereas, water units in districts Sambalpur and Bolangir had weed problem. Three major species Catla, Rohu and Mrigal were cultured together in most of the water units in districts Cuttack and Sambalpur while in

district Bolangir almost all the water units cultured other species. Type of culture was reported to be extensive in most of the water units in selected blocks of the three districts.

Estimates of average area under water units were worked out at district level using two different estimators; Estimator-I was found to be more precise than Estimator-II in all the four modes of collection of area of water units i.e. as per revenue records, at the time of visit, maximum in monsoons and minimum in summer. Estimate of

number of water units obtained from Estimator-I were found to be more precise than the other Estimator.

Estimate of fish catch obtained per pond per year was 4021.09 Kg in district Cuttack, 560.87 kg in district Sambalpur and 664.30 kg in district Bolangir.

In Cuttack and Bolangir districts most of the catch was recorded during March to July, while in Sambalpur district most of the catch was recorded during March to August.

Statistical Studies in Animal Epidemiology

The epidemiology of dairy animals basically involves the studies on incidence of various diseases, mortality due to different causes and survival/retention in the farm. In comparison to incidence and mortality, the studies on retention are not straight forward and thus need a special treatment. The retention of a cow or a buffalo in the herd and its culling excluding natural death are part and parcel of the broad term known as longevity of the animals in the herd. This concept of longevity is significantly important and leads animals with different lengths of useful life or retention times in the herd. With this background, the present investigation was taken up to carry out studies on culling process of dairy animals maintained in organised herds and modelling the epidemiology of diseases.

For studies on culling process, the concept of not only the information on exact retention times which specify the time of retention

of an animal in herd but also the notion of random variation and censoring have also been taken into account. Like any random variate, the form of the distribution of retention times has also been studied by utilising the techniques of graphical and probability plotting. The parameters of the fitted retention distribution are further related to different explanatory variables. The use of these relationships have also been demonstrated in number of ways such as to predict retention time for a given explanatory variable. In the case of modelling the epidemiology of bovine diseases, the various models have been discussed along with exposing the situations where they could be used efficiently.

The study was carried out by utilising the cross-breeding data collected by IASRI, New Delhi from Military Dairy Farms. From the results on retention/culling functions, it is concluded that animals with level of exotic in-

heritance as 37.5 per cent (3/8 breds) are best adaptive whereas animals having proportion of exotic inheritance as 87.5 per cent (7/8 breds) are least adaptive. On comparing the culling patterns, it is seen that 3/8th breds and half breds are significantly different from other categories of dairy animals and further seen that as far as their retainability is concerned both can be categorised into one class. Regarding distributional aspects, it has been found that Weibull distribution is a very good fit to the retention times of different categories of dairy animals. Taking into account this distribution the culling probability estimates have been worked out for different retention times and based on findings, it is concluded that 3/8 crossbreds have maximum retainability vis-a-vis maximum adaptability. It is also observed that culling is more intense for animals having higher level of exotic inheritance, in particular when animals are

young and have completed few years of useful life at the farm which implies that animals are screened thoroughly at the initial phase of their useful life in the herd. On examining the relationship between retention time and other production/reproduction

traits, it is seen that by and large the first lactation length, first lactation yield and second lactation yield are important variables affecting the retention times of crossbred cattle and graded buffaloes. For the systematic characterization and explanation of patterns of diseases,

the different models have been discussed and in one of the situation such as model for the mastitis programme, it has been observed that transition probability model is not adequate to explain fully the spread as well as its eradication.

Computing Science

Computing Facilities

The process of installation of a new computer system in place of old system Burroughs B-4700 is in progress. The maintenance contract of the old system ended on June 30 and hence it was dismantled for making room for the new system. All units of the new system will be linked through a local area network (ETHERNET). The proposed distribution of PC's is as follows :

(a) Computing labs (three)

Lab 1 : Equipped with 12 PC (XT) and 4 DMP (Dot Matrix Printers)

Lab 2 : Equipped with 4 PC (AT), 16 DT (Dump Terminal) and 4 DMP

Lab 3 : Equipped with 20 DT and 4 DMP

(b) Divisional labs : (six)

5 Labs : Each equipped with

1 PC (AT), 4 DT and 1 DMP

1 Lab : Equipped with 12 PC (XT) and 9 DMP

(c) Graphics lab :

To be equipped with 1 PC (AT), a Digitiser Mouse and 1 Laser Printer on stand alone system

(d) Library :

To be equipped with 1 PC (XT), 2 DT and 1 DMP

(e) Director :

To be equipped with 1 PC (XT) and 1 DMP.

(f) Joint Director : (Two)

Each to be equipped with 1 PC (XT) and 1 DMP

(g) PA to Director

To be equipped with 1 PC (XT) and 1 DMP

(h) Head/Principal Scientist :

Each to be equipped with 1 PC and 1 DMP on stand alone system

Scientific Support

During the quarter 5 Ph. D., 3 M.Sc. students and 6 other research workers from various agricultural universities and ICAR Institutes were provided with programming help in their research data analysis.

Data-entry Unit

Data entry unit of the division used data entry machines for data preparation on floppies and carried out the following jobs :

- | | |
|--|-------------|
| (i) No. of data batches created | : 292 |
| (ii) No. of data files created | : 415 |
| (iii) No. of data records created on floppies. | : 1.42 lacs |
| (iv) No. of data records transferred from tapes to floppies. | : 3.04 lacs |

Advisory Services

The technical advice and guidance were rendered to research workers and students of the various research institutes, agricultural universities and other research

organisations in planning of their experimental investigations and statistical analysis/computerisation of their research data as also in regard to research projects referred

to the Institute by the ICAR and other organisations. Special mention may be made of the technical advice and guidance given to the following :

**Sample Survey Methodology and
Analysis of Survey Data**

— Indian Grain Storage Institute,

Hapur regarding the project
formulation for estimating post

harvest losses of wheat and
paddy.

Field Survey Work

Field Training

Field training was imparted in
connection with the following
projects :

— Pilot sample survey for estimat-
ing yield and study of cultiva-
tion practices of pepper-Sindhur-
durg (Maharashtra)

— Estimation of cost of produc-
tion of sheep and wool-CSWRI,
Avikanagar (Rajasthan)

Library and Documentation Services

Resources Building

1. Books procured	30
2. Reports procured	25
3. Journals procured	300
4. No. of reprints procured	

(i) for exchange	1
(ii) for users	25

Library Services

(i) Number of documents borrowed or lent out on inter-library loan basis	10
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(ii) Number of pages of scientific and technical nature reprographed	29364
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Library Usage

(i) Number of readers who consulted the library	6500
(ii) Number of publications issued from the library	7000

Papers Published

1. Bathla, HVL; Kathuria, OP and
Walia, SS (1991). Estimation
of fish catch from ponds and
tanks and its disposal. *Punjab
Fisheries Bulletin*, 15(1) : 17-20
2. Dey, A; Srivastava, R and
Gupta, VK (1991). Robust
designs-A review and bibli-
ography. *C. du. CERO*, (1-2) :
51-61.
3. Lalchand (1990). Use of dis-
criminant function to study the
relationship among different
genetic groups based on multi-

ple traits in dairy animals,
Indian J. Dairy Sci., 43 (2) :
214.

4. Pandey, RK and Bhardwaj, SP
(1990). Analysis of interna-
tional trade in sugar, *J Indian
Sugar*, 39, March : 919-923
5. Srivastava, R; Gupta, VK and
Dey, A (1991). Robustness of
some designs against missing
data. *J. Appl. Statist.*, 18 (3) :
313-318
6. Srivastava, SS (1991). Biblio-

metrical study on research
collaboration in the field of
statistical sciences. *Proc. of
Workshop on Productivity and
Impact of Research : Sciento-
metric and Bibliometric' held
on June 25-29, 1991 at
NAARM, Hyderabad*

7. Wahi, SD (1991). Comparative
performance of two linear pro-
cedures of discrimination in
clustering different grades of
sheep. *Indian J. Heridity*, 22(1):
24-31

Papers Accepted for Publication

1. Arya, SN and Bhatia, DK— Incidence of some livestock diseases in Tamil Nadu. *Indian J. Animal Sci.*
2. Jaiswal, UC; Jain, JP and Khanna, AS—Bending of parameter estimates in non-orthogonal data to improve expected genetic gain through index selection. *Biom. J.*
3. Rai, T and Satyapal—Adopted doses of fertilizer nutrients for optimum rice production. *Indian J. Agril. Sci.*

Seminar Association

Seven seminar talks were delivered by students and 5 by scientists of the Institute. In addition, following 5 seminar talks were given by the scientists from outside the Institute.

Sl. No.	Name	Topic
1.	Dr BD Tikkiwal, Ex Sr Prof of Statistics, University of Rajasthan, Jaipur	(i) The role of fixed and mixed effects ANOVA models in simulation of experimental data (ii) The problem of small domain estimation (iii) SRA techniques and its role in crop estimation at district and lower levels
2.	Sh Pratap Narain, Ex Director, FAI	Policy imperative for growth of fertilizer industry in India
3.	Dr Virendra Kumar, General Manager, (Marketing) IFFCO	Fertilizer sceneries in India and its use efficacy

Dissertations Approved

- Ph. D.**
- Das, Praggya—Studies on optimality of designs (Guide : Dr VK Gupta)
- M.Sc. (Ag. Stat)**
- (i) Das, PK—Statistical studies on single species growth models (Guide : Dr Prajneshu)
- (ii) Ramana Davuluri, VV—Some investigations on robustness of designs against a single missing observation. (Guide : Dr VK Gupta)
- (iii) Thennarasu, K—Studies on projection of livestock population and their products (Guide : Dr HP Singh)

Seminars|Workshops|Symposia|Conferences Attended by the Scientists

S. No.	Name of the Scientist	Programme Title	Place	Period
1	2	3	4	5
1.	Sh KC Bhatnagar	Workshop on 'Meaningful Learning in Communication Process'	NAARM, Hyderabad	July 09-12

1	2	3	4	5
2.	Prof Prem Narain	48th Session of the International Statistical Institute	Cairo, Egypt	Sep 11-17
3.	Prof Prem Narain	The Satellite Conference on Order Statistics and Non-Parametrics : Theory and Applications	Alexandria, Egypt	Sep 18-20

Papers Presented at Workshops/Symposia/Conferences / Seminars

S. No.	Author	Paper Title	Programme Title	Venue	Period
1.	Narain, Prem	Training of agricultural statisticians in developing countries	48th Session of the International Statistical Institute	Cairo, Egypt	Sep 11
2.	Narain, Prem	Use of density estimation for determining premium rates in crop insurance	The Satellite Conference on Order Statistics and Non-Parametrics : Theory and Applications	Alexandria, Egypt	Sep 18-20
3.	Raheja, SK	Output elasticities of fertilizer use in India	National Consultation on Fertilizer Pricing : An Aspect of Public Policy	Institute of Development Studies, Jaipur	Sep 30 to Oct 02

Miscellaneous

Promotion personnel have been given merit w.e.f. the dates as mentioned against
The following technical promotion in the next higher grade each :

S. No.	Name	Grade (Rs.)	w.e.f.
1	2	3	4
1.	Sh Promod Kumar	2000-3500	01.01.89
2.	Sh SP Jain	2000-3500	01.01.89
3.	Sh RC Tripathi	2000-3500	01.01.89
4.	Smt Sudesh Vaid	2000-3500	01.01.90
5.	Sh Mohan Lal	2000-3500	01.01.91
6.	Sh Rajesh Kumar Jain	2000-3500	01.01.91
7.	Km Vijay Bindal	2000-3500	01.01.91
8.	Smt Geetam Johri	2000-3500	01.01.91
9.	Sh Ramji Lal	1640-2900	01.07.81

1	2	3	4
10.	Smt Vinod Narang	1640-2900	01.01.87
11.	Sh RG Kondapali	1640-2900	01.07.89
12.	Sh Dharam Pal Singh	1640-2900	01.01.90
13.	Sh Som Dutt	1640-2900	01.07.90
14.	Sh Santosh Kumar	1640-2900	01.07.90
15.	Sh SK Sharma	1640-2900	01.07.90
16.	Sh Ramesh Chand	1640-2900	01.01.91
17.	Sh Sohan Lal, Driver	1400-2300	01.07.90
18.	Sh Mohan Singh	1200-2040	01.01.91

Transfer

- Sh GC Sharma joined this Institute on May 21 as Chief Administrative Officer.
- Shri SN Jha, Chief Administrative Officer was relieved from this Institute on July 27 to join as CAO, IARI, New Delhi.

Resignation

Sh Satya Pal, Technical Assistant (T-II-3) technically resigned on September 04 and joined the Office of the Commissioner of Sales Tax, Delhi Administration as Data Processing Supervisor.



Shri SN Jha, CAO was given farewell on his transfer.



Shri SP Doshi, Scientist (SG) was given affectionate send off on his retirement.

Retirement

Sh SP Doshi, Scientist (SG) retired from the Council's service on September 30.

Deputation

Sh Ram Singh Pal, Technical Assistant T-II-4 was deputed as Librarian to Central Fertilizer Quality Control and Training Research Institute, Faridabad (Haryana).

Training Programme

Course-wise details of admission for the session 1991-92.

Sl. No.	Name of Course	Annual Admission		
		Male	Female	Total
1.	Ph. D. (Ag. Stat.)	8	1	9
2.	M. Sc. (Ag. Stat.)	4	—	4
3.	M. Sc. (CAA)	8	1	9

National Workshop-cum-Seminar

The IV Workshop-cum-Seminar on Software Development for Extension Personnel was organised at the instance of the Directorate of Extension, Ministry of Agriculture, Govt. of India during August 23-30. Dr SK Raheja, was the course Director and Shri SN Mathur, the course Coordinator.

The objective of the Workshop was to provide basic training on the use of microcomputers and relevant software to the officers of the Monitoring and Evaluation units under Training and Visit system in various states. The training included BASIC programming language and software packages such as : WORDSTAR, MICROSTAT, LOTUS 1-2-3, d Base III+ and PC CARP. The faculty for the workshop comprised Prof Prem Narain, Director, IASRI, Dr SK Raheja, Jt. Director, Sh SN Mathur, Prof (CAA) and all scientists of the Division of Computing Science. The programme comprised 17 lectures and 11 practicals on PC's covering various applications.

The Workshop was inaugurated by Shri SV Giri, Special Secretary to Govt. of India, Ministry of Agriculture on August 23. The participants were taken to NIC, New Delhi and were shown the working of National Computer Network (NIC-NET). A book

exhibition of latest computer books was also arranged for information of the participants. There were 20 participants from 10 states out of which 11 were from Agriculture Directorates and 9 from Animal Husbandry Departments. The Valedictory function was held on August 30, in which Prof Prem Narain, Director, IASRI distributed the certificates and delivered the Valedictory Address.

The Annual Day of the Institute

The Annual Day of the Institute was celebrated on July 2. As a part of these celebrations a declamation contest on 'Data Base Management in Agriculture' for the IASRI students was organised on July 1, 1991. Dr SK Sinha, Professor of Eminence, IARI was the Chief Guest. The Prizes were given to three best speakers in the form of books.

The highlights of the Institute research activities were presented by the scientists in a separate session. Dr GR Seth, Ex-Director, IASRI chaired the session and presented prizes to the three best speakers in the form of books.

On July 2, the main Annual Day Function was held in which Sh KC Lenka, Hon'ble Minister of State for Agricultural Research and Education, Animal Husbandry and

Dairying, Govt. of India was the Chief Guest. Dr SK Raheja, Acting Director, IASRI welcomed the Chief Guest and Dr IP Abrol, DDG, ICAR gave the presidential remarks. Prof JK Ghosh, Director, Indian Statistical Institute, Calcutta delivered the second Nehru Memorial Lecture on 'Stochastic Model of Discovery of Oil and Related Question'. The Chief Guest distributed the Nehru Memorial Medal to Sh Manish Khanna, M Sc. (Computer Application in Agriculture) for the year 1988-90. He then delivered his address. Dr Randhir Singh, Professor (Ag. Stat.), IASRI gave a vote of thanks.

Short-term Training Programme

The XII and XIII short term training courses on 'Use of Computer in Agricultural Research' were organised during Sep 3-13, 1991 and Sep. 18-30, 1991 respectively. The XII course was for scientific/technical personnel from ICAR Institutions located at Delhi. This was attended by 20 scientists/technical personnels from different divisions of IARI and from IASRI. The XIII course was for participants from ICAR Institutes (outside Delhi) and State Agricultural Universities. This was attended by 17 participants from Agricultural Universities and ICAR Institutes.

A Valedictory function jointly for the two courses was held on Sep 30, 1991. Shri SN Mathur, Principal Scientist and Course Coordinator presented the report on the training courses. Prof Prem Narain, Director, IASRI delivered the Valedictory Address and distributed certificates to 37 participants.

Hos'tel Activities

The Students' Annual Day was celebrated on July 2, 1991 along with the annual day of the Institute. Sh Kishori Lal, Director (Personnel), ICAR was the Chief Guest at the function. Dr SK Raheja, Acting Director, IASRI chaired the function. A Souvenir was brought out by the students on the occasion. The Chief Guest distributed prizes to the students for various athletics, team and other sports events. The function was followed by an entertainment programme organized by the students.

Staff Research Council

The meeting of the Staff Research Council was held on July 29 under the Chairmanship of Dr SK Raheja, Acting Director to consider new project proposals and to review the progress of the on-going research projects. During the meeting Dr GR Seth, former Director of the Institute was invited as an outside expert for comments/suggestions on the new research project proposals. In all 4 new project proposals were presented at the meeting and approved. The progress of 49 on-going research projects was reviewed.

Monitoring Cell

The following items of work were undertaken :

- Monitoring progress report for the six months period ending March, 1991.
- Information on Current Agricultural Research Information System (CARIS) as per ICAR proforma was collected and sent to ARIC (ICAR).
- RPF's for the three divisions for the years 1989 and 1990 were sent to ICAR.

UNDP Cell

Various recommendations of the visiting UNDP Consultants have been consolidated and classified and their indexing was in progress.

Lectures delivered by the Scientists of the Institute

Prof Prem Narain

— Delivered

- * A lecture entitled "Computers in Agricultural Extension" on Aug 24 to the participants of Workshop-cum-Seminar on Software Development for extension workers held at IASRI, New Delhi.

- * A lecture entitled "Statistical Aspects of Comprehensive Crop Insurance Scheme" on Sep 27 to the participants of CSO-ISAS Training Course on Organization of Surveys—Recent Developments in Sample Survey Methods and their Applications at IASRI, New Delhi

Dr SK Raheja

- Delivered lectures entitled (i) Introduction to computers in agriculture and

- (ii) Software development for extension and data processing at the IV Workshop-cum-Seminar on Software Development for Extension Personnel held during Aug 23-30.

Dr RK Pandey

- Delivered two lectures on 'Technical change in agricultural and its measurement' in a summer institute 'Recent Advances in Quantitative Technique for Policy Analysis in Agricultural Economics' held at IARI, New Delhi on July 15.

Dr JP Jain

- Delivered a lecture on "Impact surveys" to trainees who attended the programme on "Organisation of Surveys—Recent Developments in Sample Survey Methods and their Applications" organised by the ISAS at IASRI, New Delhi.

Dr Shivtar Singh

- Delivered a lecture to senior level officers who attended the training programme 'organisation of Surveys—Recent Developments in Sample Survey Methods and their Applications' on the topic of cost of rearing livestock on Sep 27.

Participation in Meetings, Discussions, Committees, etc.

Prof Prem Narain

- Presided over the meeting of the Executive Council-cum-Editorial Board of the Indian Society of Agricultural Science on Aug 26.

— Attended

* The meeting of the IARI Academic Council on Aug 31.

* The Council meetings of the International Statistical Institute at Cairo (Egypt) on Sep 8 and Sep 17.

Dr SK Raheja

— Chaired

* The meeting of the Management Committee of the Institute on July 22.

* The meeting of Staff Research Council of the Institute on July 29-30.

* Attended the meeting of the Academic Council, IARI, New Delhi on Aug 31.

Dr RK Pandey

* सस्थान के केन्द्रीय परिषद की शाखा की बैठक की 14 अगस्त को अध्यक्षता की

— Attended the meeting of Executive Council-cum-Editorial Board of Indian Society of Agricultural Science.

Sh SS Srivastava

Attended the meeting of Delhi Library Networking (DELNET) and Consultative Committee for Rationalisation of Periodicals (CCRP) for Delhi Libraries at Indian International Centre, New Delhi on Sep 11.

Course Attended

Dr VT Prabhakaran, Dr VK Bhatia, Sh TB Jain, Sh RC Gola, Mrs Rajinder Kaur, Sh Ramesh Kumar, Sh VK Mishra, Mrs Jyoti Gangwani, Sh Pratap Singh and Sh Anil Kumar

— XII short term training course on 'Use of Computer in Agricultural Research' from Sep 3-13 at IASRI, New Delhi.

Dr GC Chawla

— Course on 'Management of Human Resources' held at NAARM, Hyderabad during Aug 20-31.

IASRI Publications

— Statistical studies in animal epidemiology (1990).
by VK Bhatia and PK Malhotra

— Investigations on appropriate statistical methods for comparing genetic groups based on multiple traits in dairy animals (1991).

by Lal Chand and Prem Narain

Scientist deputed abroad

Professor Prem Narain, Director of this Institute was deputed to attend the 48th Session of the International Statistical Institute held at Cairo as well as Satellite Conference on Order Statistics and Non Parametrics : Theory and Applications at Alexandria (Egypt) from September 9-20, 1991. He presented contributed papers at both the Conferences. He was also invited as a discussant for invited paper session on 'Surveying and Assessing Marine Populations' organised by Dr KVR Sastry (India) on September 16 and on "Non Response : New Methods and Worldwide Trends" organised by A Ekholm (Finland). On request he presented the Invited Paper of Dr B.O. Sogunro (Nigeria) in his absence on September 17, 1991. He also presented his discussion papers on

both the topics during 48th session of International Statistical Institute held at Cairo (Egypt).

Other Information

Prof Prem Narain

— Nominated as a member of the reconstituted Technical Advisory Committee for Applied Statistical Surveys and Computing Division of the Indian Statistical Institute, Calcutta

— Attended the Inaugural Function of the IX Annual Conference of Indian Society of Medical Statistics and National Seminar on Statistics in Maternal and Child Health on Sept 26 at New Delhi.

Dr SK Raheja

— Acted as Director of the Institute in the absence of regular Director during April 15-Aug 11, 1991

— Acted as course Director for the IV Workshop-cum-Seminar on 'Software Development for Extension Personnel' organised at the Institute from Aug 23-30, 1991

— Appointed as member of the conference arrangement committee for V International Conference on Goats to be held in March, 1992 at New Delhi.

Dr JP Jain

* Reviewed the book 'Advances in Statistical Methods for Genetic Improvement of Livestock' 1990, (Eds.) Gianola, D and Hammond K, Springer-Verlag, *Indian J. Animal Sci.*, 61:915

Participation in ICAR Scientific Panel Meetings

Name of the Scientist	Name of the Scientific Panel	Date
Dr VK Bhatia	Plant Breeding and Genetics	Aug 8-9
Dr Chandrabhas	Plant Pathology	Aug 1-2

हिंदी के प्रगामी प्रयोग में प्रगति

प्रतिवेदनाधीन तिमाही के दौरान, संस्थान में राजभाषा हिन्दी के प्रचार, प्रसार एवं प्रयोग सम्बन्धी अनेक गति-विधियां हुईं। अगस्त माह में संस्थान में मनाए गए पखवाड़े के दौरान अनेक प्रतियोगिताएं आयोजित की गयीं। इस बार प्रतियोगिताओं में सबसे विशेष बात देखने में यह आयी कि अधिकतर हिन्दी प्रतियोगिताओं में वैज्ञानिकों तथा तकनीकी अधिकारियों एवं कर्मचारियों ने प्रशासनिक कर्मचारियों की अपेक्षा अधिक भाग लिया।

केन्द्रीय सचिवालय हिन्दी परिषद की

संस्थान शाखा की दिनांक अगस्त 14, 1991 को हुई कार्यकारिणी की बैठक में हिन्दी व्यवहार पखवाड़ा मनाने तथा विभिन्न हिन्दी प्रतियोगिताओं के आयोजन, हिन्दी दिवस मनाने एवं इस अवसर पर मुख्य अतिथि आमंत्रित करने के निर्णय के साथ ही इस प्रतिवेदनाधीन तिमाही की गतिविधियों में तेजी आयी।

हिन्दी व्यवहार पखवाड़ा

हमारे संस्थान में हिन्दी सप्ताह की बजाय, हिन्दी व्यवहार पखवाड़ा मनाया

जाता है और इन 15 दिनों के दौरान संस्थान के सभी श्रेणी के अधिकारी एवं कर्मचारियों द्वारा अपना अधिकाधिक कार्य हिन्दी में करने का संकल्प लेकर उसे कार्यान्वित किया जाता है। इस वर्ष यह पखवाड़ा दिनांक अगस्त 19, 1991 से 15 दिनों के लिए मनाया गया। पखवाड़े के दौरान विभिन्न अनुभागों/प्रभागों में हिन्दी के व्यावहारिक उपयोग के साथ ही प्रतियोगिताओं का आयोजन निम्नानुसार भिन्न-भिन्न प्रतियोगिता समितियों के द्वारा किया गया।

क्र. सं.	प्रतियोगिता का नाम	दिनांक	आयोजक
1	2	3	4
1.	हिन्दी टिप्पण एवं प्रारूपण प्रतियोगिता	28 अगस्त	श्री जी. सी. शर्मा श्री संतोष कुमार सिंह
2.	हिन्दी लेख प्रतियोगिता	29 अगस्त	डा. बी. एस. शर्मा श्री अनिल अग्रवाल
3.	हिन्दी अनुवाद प्रतियोगिता	30 अगस्त	डा. हरपाल सिंह डा. के. के. त्यागी
4.	हिन्दी टंकण प्रतियोगिता	31 अगस्त	श्री सुभाष चन्द श्री प्रेम शंकर राय

1	2	3	4
5.	हिन्दी आशुलिपि प्रतियोगिता	3 सितम्बर	श्री सी. एस. वर्मा श्री सुभाष चन्द
6.	हिन्दी वाद-विवाद प्रतियोगिता	10 सितम्बर	डा. श्रीमति रंजना अग्रवाल श्री एस. एन. आर्य
7.	हिन्दी अन्ताक्षरीप्रतियोगिता	10 सितम्बर	-तदैव-
8.	प्रश्न मंच प्रतियोगिता	हिन्दी दिवस के अवसर पर	श्री ए. पी. सिंह, श्री प्रेम शंकर राय श्रीमती ऊषा जैन

संस्थान से संबद्ध वैज्ञानिक एवं तकनीकी तथा प्रशासनिक शब्द-संग्रह तैयार करने के लिए डा० (श्रीमती) रंजना-अग्रवाल की अध्यक्षता में गठित समिति की बैठक दिनांक अगस्त 2, 1991 को

हुई जिसमें शब्द-सूचियों की स्थिति पर विचार-विमर्श करके उपलब्ध शब्दावलियों का वितरण एवं अगले चरण के कार्यक्रम पर विचार किया गया। इस समिति ने बहुत ही महत्वपूर्ण सिफारिशों की हैं जिन्हें

स्वीकार किया गया है और भविष्य में इन्हें लागू करने के सफल प्रयास किए जा रहे हैं।