NATIONAL FOOD SECURITY MISSION

[Assessment of NFSM States' Performance-2008-09]

[Methodology & Parameters adopted]

[2010-11]

[MINISTRY OF AGRICULTURE
GOVERNMWNT OF INDIA]

Performance Assessment of NFSM States

Under national Food Security Mission, there is a provision for rewarding the best performing districts. The districts have to be chosen in terms of organization and management of various resources for the implementation of the Mission interventions and the consequent outcomes.

National productivity council prepared a compendium of guidelines laying down objective criteria for selection of best performing districts based on various factors such as production, yield, input consumption etc.

While the process for selection of districts is to be taken up by the States as per the laid out guidelines, it is felt necessary to rank the states at the national level on the basis of their cumulative performance that take into account the inputs used, outputs produced and outcomes reached. This ranking would not only recognize the meritorious performance at the National Level but the methodology adopted becomes instructive to the States for following the similar process for identifying the best performing districts.

Methodology adopted for selecting the best performing States for the year 2008-09 is given as under

Procedure Adopted

- A **weightage card** (**Table 1**) for determining the performance of each state has been prepared based on the NPC model by fixing scores to various parameters of inputs, outputs, outcomes and contribution to total production on a scale of 100. The performance of the states based on the weightage card indicators is examined by a three member committee of Director (Crops), Dr.R.K.Gupta, NFSM Consultant, and Deputy Director General, Horticulture Division under the guidance of Joint secretary(Crops) and Mission Director (NFSM).
- States have been grouped into 3 zones of eastern, central & western and southern regions for rice and pulses; and for wheat the states are grouped into 2 zones of north western and central eastern regions based on agro-ecological similarities. The details of the scores procured by each state crop-wise are displayed on NFSM website http://nfsm.gov.in_ Compilation of ranking of the states as per the computation of performance index for rice, wheat and pulses components , agro ecological region wise are placed at **Table 2-4**
- The states of Andhra Pradesh and Orissa have scored more weightage marks both for rice and pulses crops in Southern and Eastern Zone respectively. Since, rice is the predominant crop in Andhra Pradesh; it is decided to retain the state for Rice and choose the state of Tamilnadu that has scored second place in southern region for the pulses category award. Similarly, keeping in view the good work done under pulses component in Orissa, the state has been retained under pulses category and State of Assam that

scored second place in eastern region for rice is selected under rice crop category.

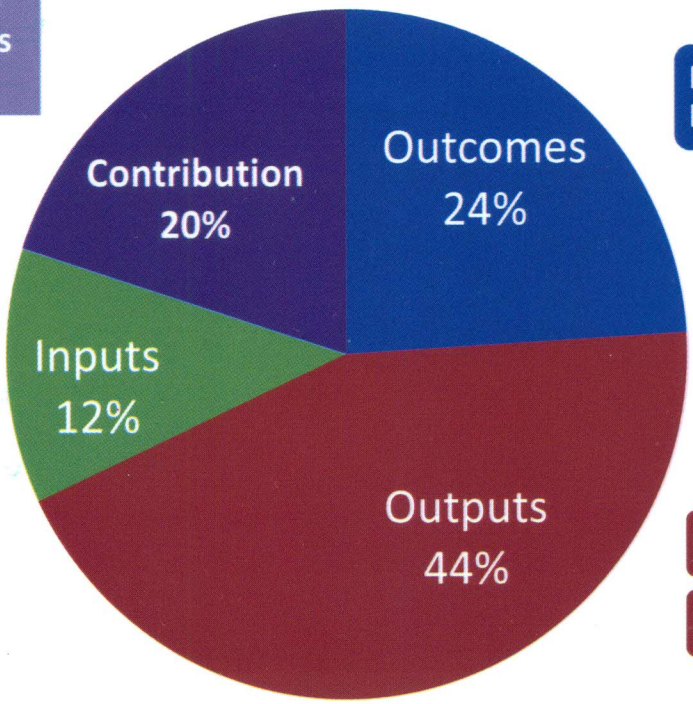
- The list of states selected for performance awards 2008-09 are as follows:

Crop	Region	State	Remarks
NFSM Rice	Southern Region	Andhra Pradesh	
	Eastern region	Orissa/Assam	Assam is chosen since Orissa is selected for pulses
	Central Western Region	Uttar Pradesh	
NFSM Wheat	North Western Region	Punjab	
	Central western and eastern region	Bihar	
NFSM Pulses	Southern region	Andhra Pradesh/ Tamilnadu	T.N is chosen since A.P is awarded for Rice
	Central Western region	Maharashtra	
	Eastern region	Orissa	

- The highlights of the performance of the states selected for rice, wheat, pulses in different agro ecological regions is specified on **page 12-19** of the booklet.

Performance Index

Contribution to All India Production as per DES figures



Production and Yield Figures from DES

Expenditure

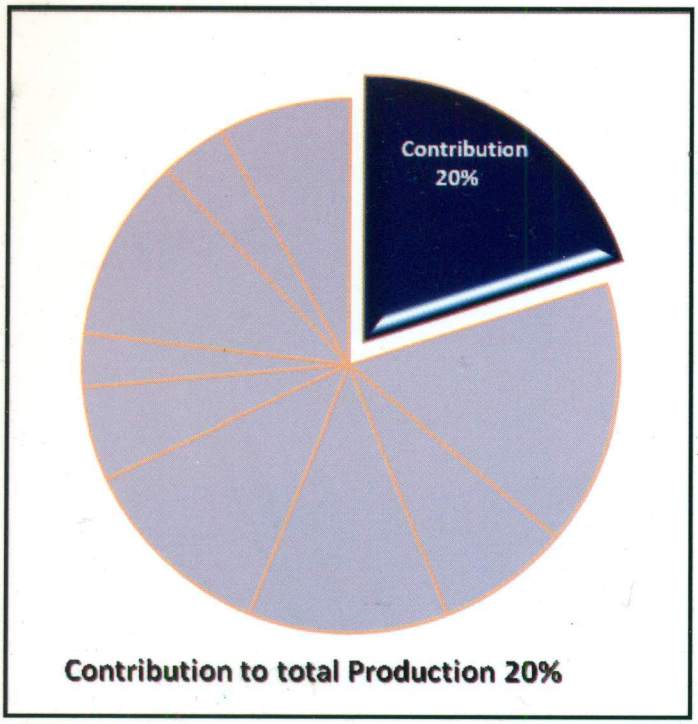
Project Management

Local Initiatives

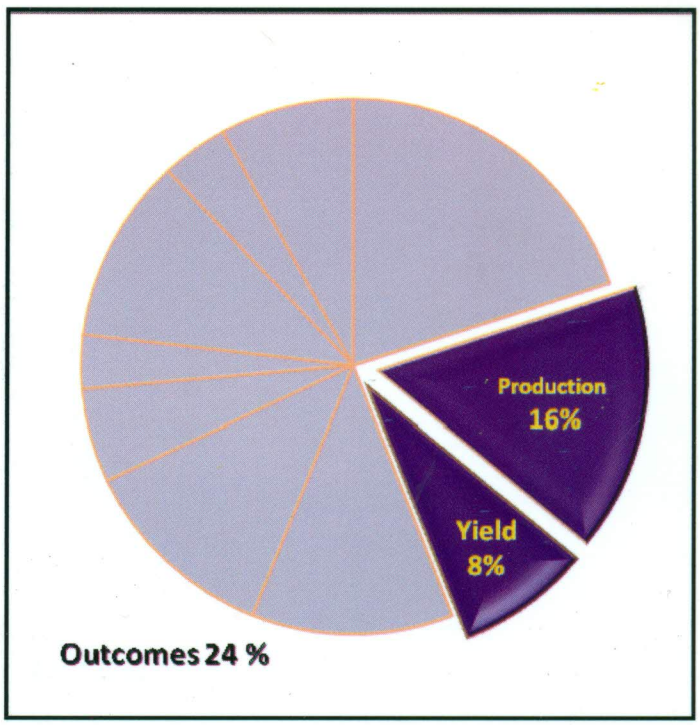
Physical Progress

Program Mix

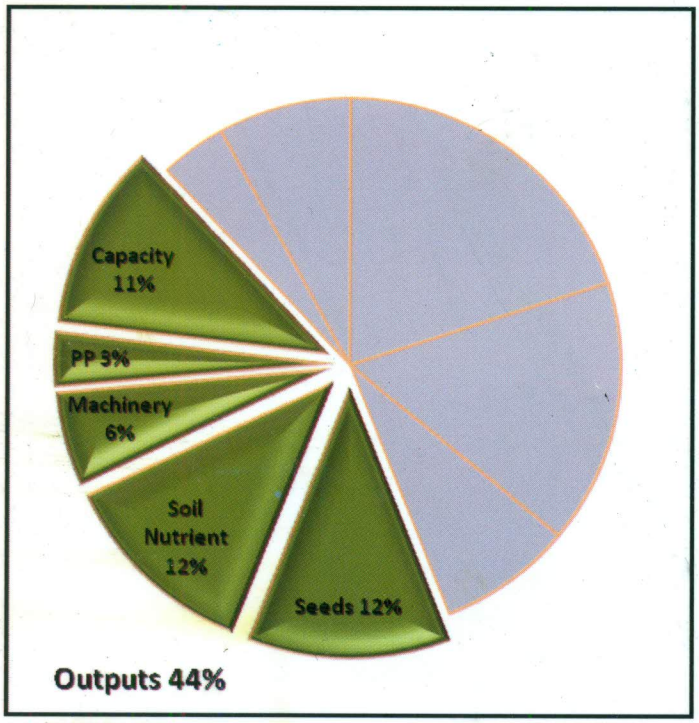
NFSM- RICE



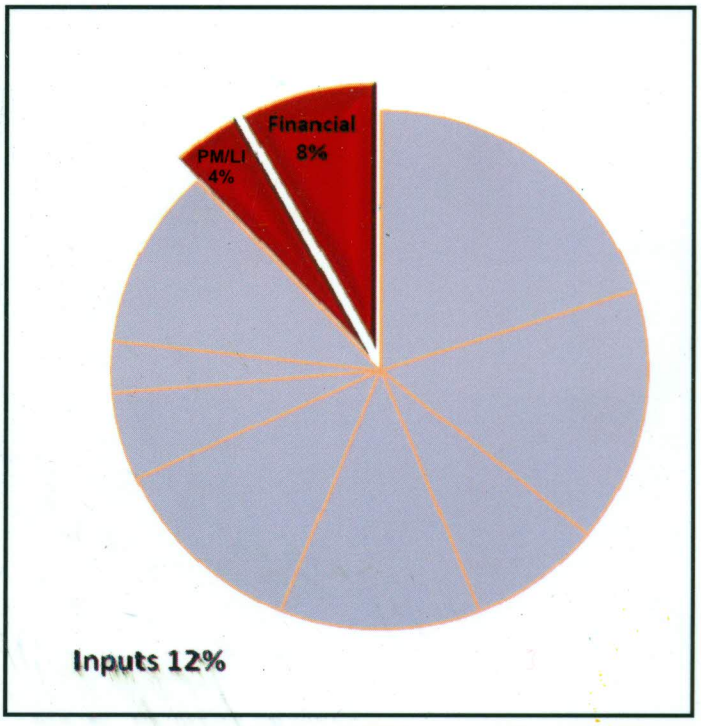
Contribution to total Production 20%



Outcomes 24 %



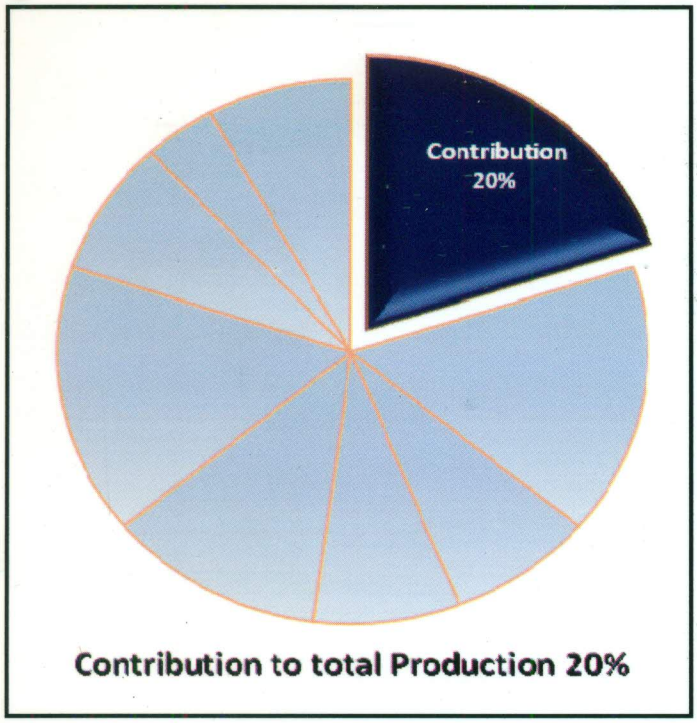
Outputs 44%



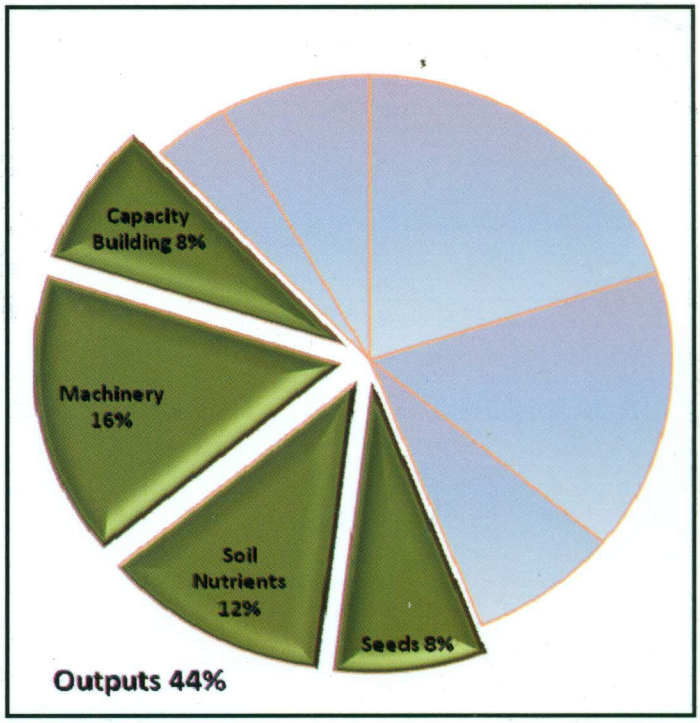
Inputs 12%

Contribution to total production in the country (20%)	Inputs (12%)		Outputs (44%)					Out comes (24%)	
	PM/LI	Financial	Seeds	Soil Nutrient	Machinery	PP	Capacity	Production	Yield ial
20	4	8	12	12	5.6	3.2	11.2	16	8

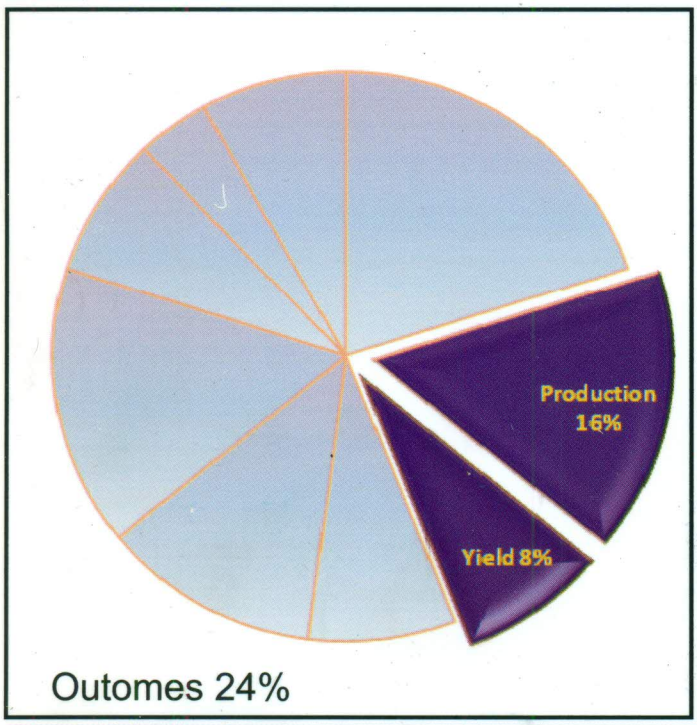
NFSM- WHEAT



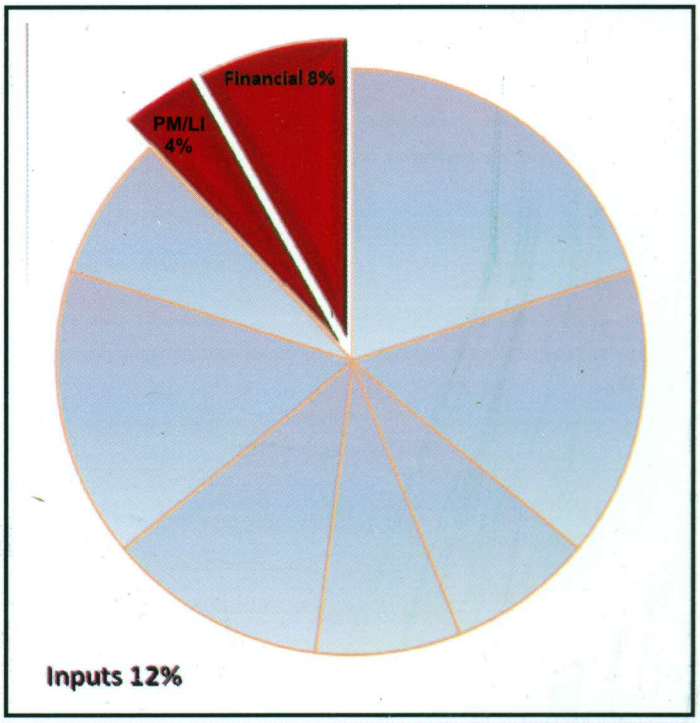
Contribution to total Production 20%



Outputs 44%



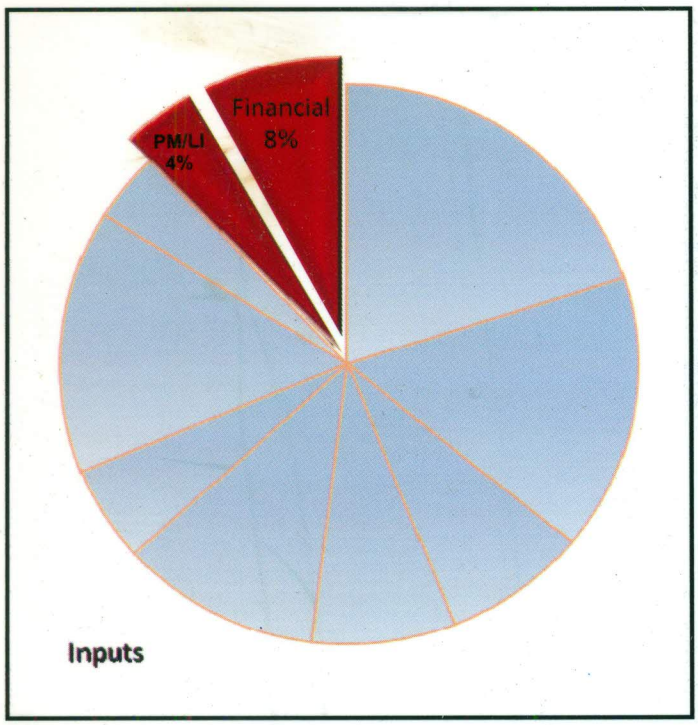
Outomes 24%

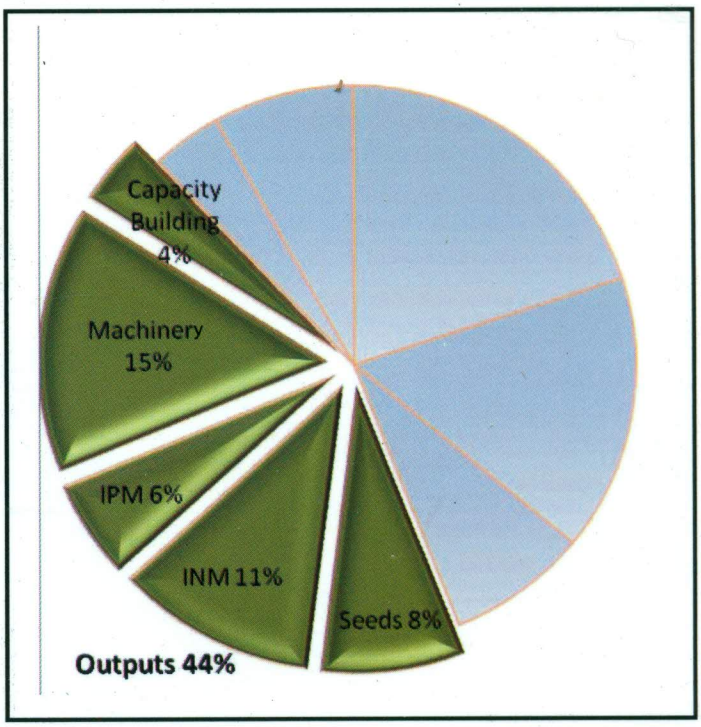


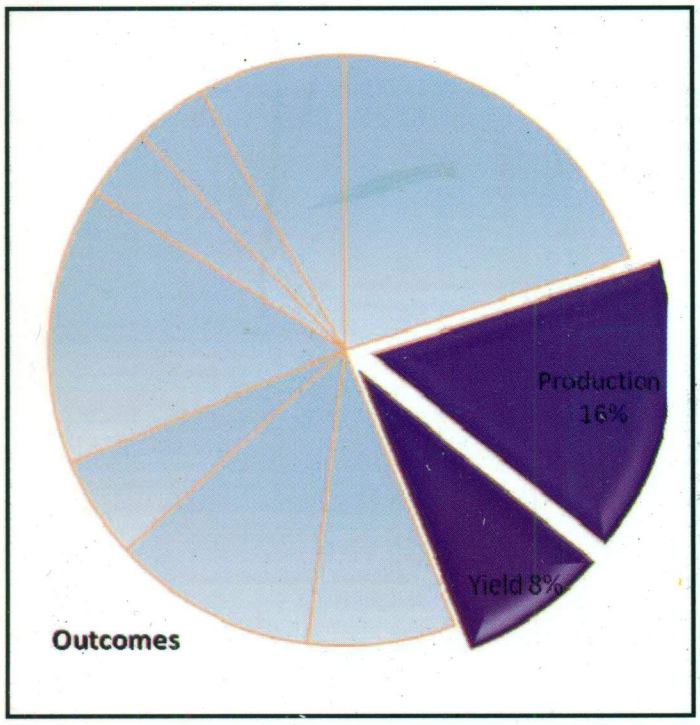
Inputs 12%

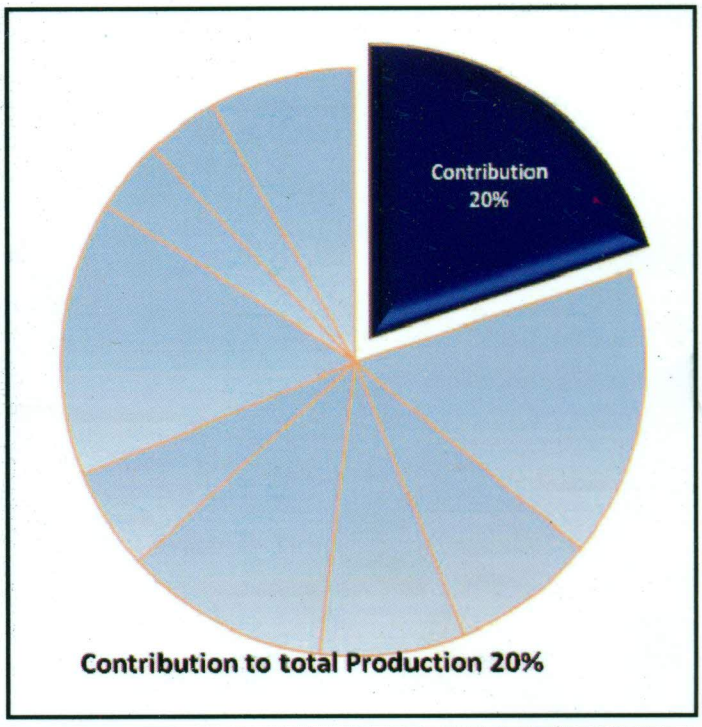
Contribution to total production in the country (20%)	Inputs (12%)		Outputs (44%)				Outcomes (24%)	
	PM/LI	Financial	Seeds	Soil Nutrients	Machinery	Capacity Building	Production	Yield
20	4	8	8	12	16	8	16	8

NFSM - PULSES









Contribution to total production in the country (20%)	Inputs (12%)		Outputs (44%)					Outcomes (24%)	
	PM /LI	Financial	Seeds	INM	IPM	Machinery	Capacity Building	Production	Yield
20	4	8	8	11.2	5.6	15.2	4	16	8

Performance Assessment

Data response with real time ranking

- Online progress reports received from States
- Financial Releases
- Production forecasts

Knowing where the States or the Districts Stand

- In relation to others
- With respect to the programs

Validation of Methodology

- Awards for the Districts at State level
- Awards for the Districts at National level

Table 1 -Weightage assigned for 100 % achievement under various parameters				
S.No	Parameters	Crop components		
		Rice	Wheat	Pulses
*1	Contribution of the state to the total production in the country	20	20	20
2	Production	16	16	16
3	Yield	8	8	8
4	Production of Foundation Seed	0	0	0.8
5	Production of Certified Seed	0	0	0.8
6	Distribution of HYV	8	8	6.4
7	Distribution of hybrid seed	1.6	0	0
8	Production of hybrid seed	2.4	0	0
9	Use of ameliorants	6.4	6.4	0
10	Use of INM (Gypsum/lime)	0	0	5.6
11	Use of micronutrients	5.6	5.6	5.6
12	Farmers Training	3.2	4	4
13	Demonstration on SRI	2.4	0	0
14	Demonstration on hybrid rice technology	2.4	0	0
15	Demonstration on IPP	3.2	4	0
16	Use of PP chemicals	3.2	0	0
17	Use of IPM practices	0	0	5.6
18	Pumpsets	0.8	4	4
19	Sprinkler Sets	0	4	3.2
20	Seed drills	0	0.8	0.8
21	Rotavator	0.8	3.2	1.6
22	Weeders	2.4	0	0
23	Sprayers	1.6	1.6	3.2
24	Zero-till seed-drill	0	1.6	1.6
25	Multicrop planter	0	0.8	0.8
26	PMT District Level	1.6	1.6	1.6
27.	PMT State Level	0.8	0.8	0.8
28.	Local Initiative	1.6	1.6	1.6
29	Overall financial achievement	8	8	8
30	Total	100	100	100

*Full marks for 2 m, 2 m and 1 m t of production as of rice, wheat and pulses respectively in NFSM

Table: 2. Performance ranking of NFSM- Rice states for 2008-09						
Agro-ecological Region	S.No.	States	Achievement based Score (Sa)	*Production contribution based score (Sp)	Final score (Ss)	Rank
Eastern region	1	Orissa	70.8	20	90.8	1
	2	Assam	68.8	20	88.8	2
	3	West Bengal	60.61	20	80.61	3
	4	Bihar	43.3	20	63.3	5
	5	Jharkhand	43	13.8	56.8	6
	6	Chhattisgarh	55.5	20	75.5	4
Central western region	1	Maharashtra	46.4	15.1	61.5	2
	2	Gujarat	28.6	0.8	29.4	4
	3	Madhya Pradesh	44.5	7.7	52.2	3
	4	Uttar Pradesh	58.5	20	78.5	1
Southern region	1	Kerala	64.9	2.9	67.8	2
	2	Karnataka	50.9	14.2	65.1	4
	3	Andhra Pradesh	61.3	20	81.3	1
	4	Tamil Nadu	54.3	10.6	64.9	3
*20 points for 2 mt and above of production						

Table: 3. Performance ranking of NFSM- Wheat states for 2008-09

Agro-ecological Region	S.No.	States	Achievement based Score (Sa)	*Production contribution based score (Sp)	Final score (Ss)	Rank
North western region	1	Punjab	67.8	20	87.8	1
	2	Haryana	67.1	20	87.1	2
	3	Uttar Pradesh	63.8	20	83.8	3
	4	Rajasthan	57.5	20	77.5	4
Central western & eastern region	1	Maharashtra	61.8	8.3	70.1	3
	2	Madhya Pradesh	50.5	20	70.5	2
	3	Bihar	52.9	20	72.9	1
	4	Gujarat	48.9	6.5	55.4	5
	5	West Bengal	54.9	1.8	56.7	4
*20 points for 2 mt and above of production						

Table : 4. Performance ranking of NFSM- Pulses states for 2008-09						
Agro-ecological Region	S.No.	States	Achievement based Score (Sa)	*Production contribution based score (Sp)	Final score (Ss)	Rank
Eastern region	1	West Bengal	43.68	2.6	46.28	5
	2	Bihar	44.24	8.6	52.84	4
	3	Chhattisgarh	55.44	14	69.44	3
	4	Uttar Pradesh	49.90	20	69.90	2
	5	Orissa	66.56	11	77.56	1
Central western region	1	Madhya Pradesh	42.56	20	62.56	3
	2	Rajasthan	50.88	19	69.88	2
	3	Gujarat	26.44	1.54	27.98	6
	4	Haryana	46.89	1.66	48.55	4
	5	Punjab	43.44	0.52	43.96	5
	6	Maharashtra	68.64	20	88.64	1
Southern region	1	Andhra Pradesh	60.48	20	80.48	1
	2	Karnataka	50.16	16.6	66.76	3
	3	Tamil Nadu	63.40	3.6	67.00	2
*20 points for 1 mt and above of production						

NFSM –Rice: Best Performance Award for Eastern Region

ASSAM

- Nfsm districts contributed 20.26 lakh tons rice production during 08-09 compared to 12.26 lakh tons in 2006-07 which is 36% increase over the base year 06-07 which is 18% more than base year.

- Over all , State contributed 40.7 lakh tons of rice compared to 21.9lakh tons during 2006-07 (a well deserving 40% increase over base year 2006-07)

- State achieved 100% targets under soil amelioration; 1, 90,000 ha of acidic soils were treated with lime during 2008-09.

- State achieved 100% targets under micronutrients component and treated 55860 ha with micronutrients for ensuring sufficient nutrient supply.

- State also achieved 100% targets under demonstrations of improved technologies and System of rice intensification and hybrid rice.

NFSM –Rice & Pulses Best Performance Award for Southern Region

ANDHRA PRADESH

NFSM Rice:

- NFSM districts contributed 72 lakh tons rice production during 08-09 compared to 55.5 lakh tons in 2006-07 which is 29% increase over the base year 06-07.
- The productivity of NFSM districts has increased to 3092 kg/ ha in 08-09 compared to 2691 kg/ ha in 06-07, recording 15% increase over base year.
- Over all, State contributed 142.4 lakh tons compared to 118.7 lakh tons during 2006-07, with 20% increase over base year.
- State popularized farm machinery and achieved 100% targets under all farm machinery such as rotavators, multicrop planters, seed drills, power weeders and pump sets during 2008-09.
- State achieved 100% targets under micronutrients component and treated 52131 ha with micronutrients for enriching the soils.
- State also achieved 100% targets under demonstrations of improved technologies and hybrid rice.

NFSM Pulses:

- NFSM districts contributed 12.52 lakh tons Pulses production during 08-09 compared to 11.20 lakh tons in 2006-07 which is 12% increase over the base year 06-07.
- The productivity of NFSM districts has increased to 821 kg/ ha in 08-09 compared to 679 kg/ ha in 06-07 showing an increase of 21%.
- Over all contribution of State is 14.42 lakh tons compared to 13.47lakh tons during 2006-07, with an impressive 8% increase over base year.
- State popularized the improved varieties and achieved 100% targets under distribution of certified seeds. Nearly 2.99 lakh quintals of improved varieties seed distributed during 2008-09.
- State popularized farm machinery and achieved 100% targets under multicrop planters, rotavators and diesel pumpsets
- State achieved 61% targets under Integrated Nutrient Management

NFSM –Rice Best Performance Award for Central Western Region

UTTAR PRADESH

- NFSM districts contributed 64.6 lakh tons rice production during 08-09 compared to 53.4 lakh tons in 2006-07 which is 21% increase over the base year 06-07.

- The productivity of NFSM districts has increased to 2068 kg/ ha in 08-09 compared to 1691 kg/ ha in 06-07 showing an increase of 22%.

- Over all contribution of State is 130.51 lakh tons compared to 110.83 lakh tons during 2006-07, with an impressive 18% increase over base year.

- State popularized farm machinery and achieved 100% targets under conoweeders and other implements during 2008-09.

- State popularized the HYVs and achieved 100% targets under distribution of HYV seeds.

- State also achieved 100% targets under demonstrations of improved technologies, SRI and hybrid rice.

NFSM –Wheat Best Performance Award for Central Western & Eastern Region

BIHAR

- NFSM districts contributed 36.21 lakh tons wheat production during 08-09 compared to 27.9 lakh tons in 2006-07 which is 30% increase over the base year 06-07.
- The productivity of NFSM districts has increased to 2336 kg/ ha in 08-09 compared to 1994 kg/ ha in 06-07 showing an increase of 17%.
- Over all contribution of State is 52.5 lakh tons compared to 42.72 lakh tons during 2006-07, with an impressive 22% increase over base year.
- State popularized farm machinery and achieved 100% targets under conoweeders and other implements during 2008-09.
- State popularized the HYVs and achieved 63% targets under distribution of HYV seeds.
- State also achieved 100% targets under demonstrations of improved package of practices
- State successfully popularized the farm machinery especially of rotavators and pump sets with 100% achievement of targets.

NFSM –Wheat -Best Performance Award for

North Western Region

PUNJAB

- NFSM districts contributed 84.15 lakh tons wheat production during 08-09 compared to 77.4 lakh tons in 2006-07 which is 9% increase over the base year 06-07.

- The productivity of NFSM districts has increased to 4397 kg/ ha in 08-09 compared to 4128 kg/ ha in 06-07 showing an increase of 7%.

- Over all contribution of State is 157.33 lakh tons compared to 150 lakh tons during 2006-07, with an impressive 8% increase over base year.

- State popularized the HYVs and achieved 100% targets under distribution of HYV seeds. Nearly 3 lakh quintals of HYV seeds distributed during 2008-09.

- State achieved 100% targets under soil amelioration and treated 66000 ha of alkali soils with gypsum

- State could successfully motivate farmers for use of micronutrients which is evident from 100% achievement of targets under micronutrients with 1.2 lakh ha treated with micronutrients

- State popularized farm machinery and achieved nearly 95% targets under rotavators and Zerotill seed drills during 2008-09.

NFSM –Pulses Best Performance Award for Southern Region

TAMILNADU

- NFSM districts contributed 2.1 lakh tons Pulses production during 08-09 compared to 1.91 lakh tons in 2006-07 which is about 10 % increase over the base year 06-07. The productivity of NFSM districts has recorded 511 kg/ ha in 08-09

- Over all contribution of State is 3.4 lakh tons compared to 2.91 lakh tons during 2006-07, with an impressive 17 % increase over base year.

- State achieved 100% targets under production of foundation seeds of pulses and popularized the HYVs and achieved 81% targets under distribution of HYV seeds.

- State achieved 100% targets under integrated Nutrient Management including soil amelioration with lime/gypsum and treatment with micronutrients.

- State popularized Integrated Nutrient management and successfully achieved 100% target during 2008-09.

- State popularized micro irrigation and achieved nearly 90% targets under sprinklers during 2008-09.

NFSM –Pulses & Rice Best Performance Award for Eastern Region

Orissa- NFSM Pulses

- NFSM districts contributed 5.5 lakh tons Pulses production during 08-09 compared to 4.6 lakh tons in 2006-07 which is 21% increase over the base year 06-07.
- The productivity of NFSM districts has increased to 523 kg/ ha in 08-09 compared to 448 kg/ ha in 06-07 showing an increase of 17%.
- Over all contribution of State is 9.94 lakh tons compared to 8.7 lakh tons during 2006-07, with an impressive 15% increase over base year.
- State popularized the improved varieties and achieved 83% targets under distribution of certified seed. Nearly 6000 quintals of certified seed distributed during 2008-09.
- State achieved 78% targets under application of micronutrients.
- State popularized micro irrigation and achieved 100% targets under sprinklers during 2008-09.

Orissa –NFSM Rice

- NFSM districts contributed 27 lakh tons rice production during 08-09 compared to 26.5 lakh tons in 2006-07 which is 2% increase over the base year 06-07.The productivity of NFSM districts is recorded at 1389 kg/ ha in 08-09.
- Over all, State contributed 69.2 lakh tons compared to 69.23 lakh tons during 2006-07.
- State popularized HYV seeds and achieved 100% targets under seed distribution and distributed 1.2 lakh quintals of HYV seeds.
- State popularized farm machinery and achieved 100% targets under farm machinery such as conoweeders, during 2008-09.
- State achieved 100% targets under micronutrients component and treated 41000 ha with micronutrients for enriching the soils.
- State achieved 90% targets under lime and treated 91000 ha with lime. Use of Paper mill sludge is encouraged.
- State also achieved 100% targets under demonstrations of improved technologies, SRI and hybrid rice.

NFSM –Pulses Best Performance Award for Central Western Region

MAHARASHTRA

- NFSM districts contributed 15.2 lakh tons Pulses production during 08-09 .The productivity of pulses in NFSM districts is 609 kg/ ha in 08-09.

- Over all contribution of State is 18.6 lakh tons during 2008-09 .Overall productivity of the states is 607 kg/ha in 2008-09 as compared to 602 kg/ha in 2006-07 with 1% increase.

- State achieved 100% targets under production of foundation seeds of pulses as well as distribution of HYV seeds.

- State achieved 100% targets under Integrated Pest Management and applied IPM in 1.4 lakh ha.

- State could successfully motivate farmers for use of Integrated Nutrient Management practices which is evident from 100% achievement of targets under lime/gypsum with 1.21 lakh ha treated with lime/gypsum

- State popularized farm machinery and achieved 100% targets under rotavators, Zero till seed drills, multicrop planters, diesel pump sets during 2008-09.