



ANDHRA PRADESH LIVESTOCK DEVELOPMENT AGENCY

WELCOMES

AP Model of AI Delivery

Dr.P.D.Kondala Rao,

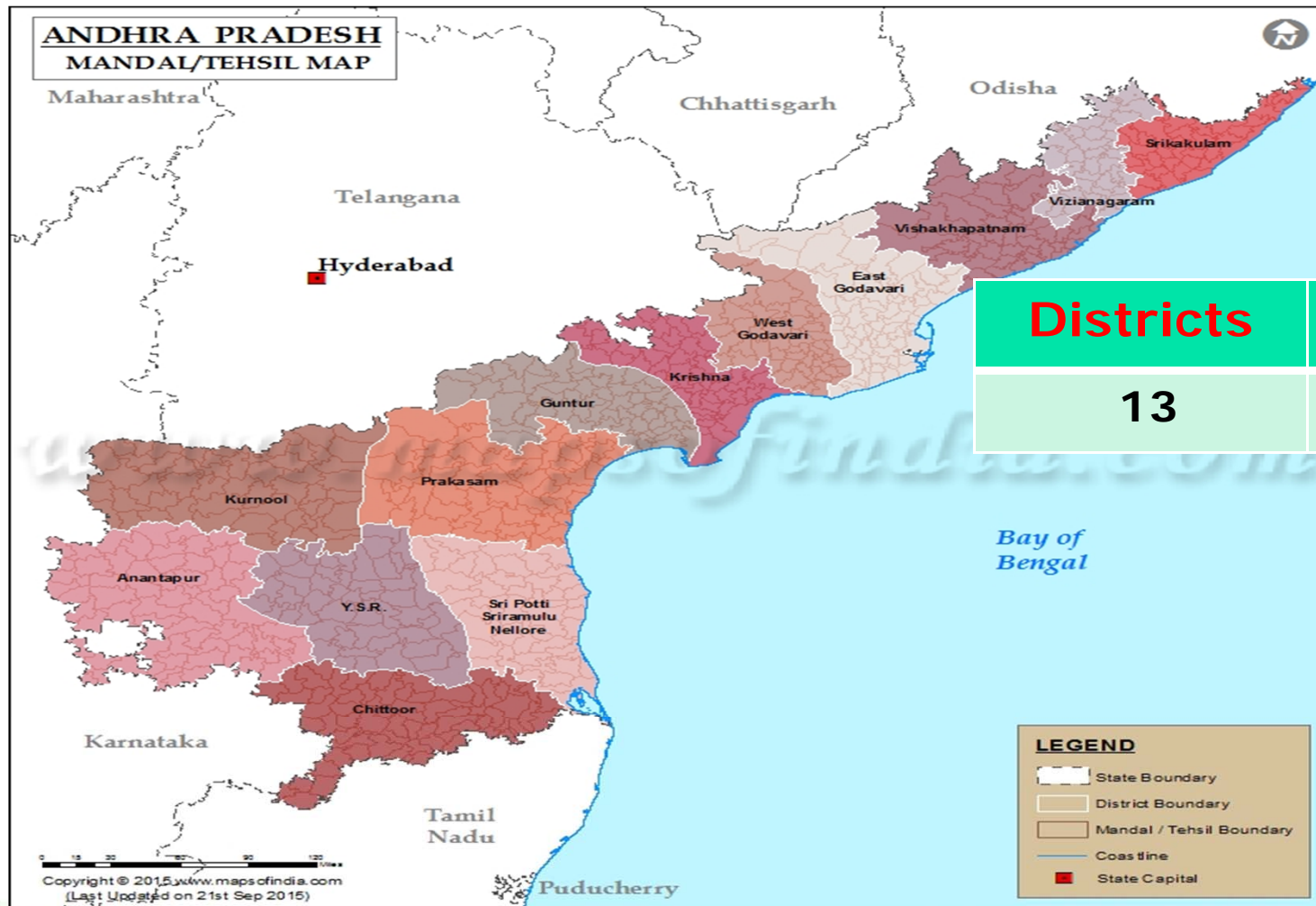
M.V.Sc

Chief Executive Officer





DISTRICT MAP OF ANDHRA PRADESH



Districts

Area

13

160.97





GENESIS OF APLDA

- Accordingly, APLDA was registered under AP (Telangana Areas) Public Registrations Act, 1350 Fasli with registration No: 7146 of 1999 dated: 13.10.1999.
- The Government have appointed the Chairman & Executive Committee members for the first time in GO Ms No: 85, dated: 2.8.1999.
- Registered under Societies Registration Act during 1999 with the Jurisdiction of 23 Districts
- As per AP Reorganization Act 2014, APLDA categorized in Tenth Schedule.
- As per AP Societies Registration Act, The EC & General Body resolved for division of APLDA into APLDA and Telangana State Livestock Development Agency (TSLDA).
- APLDA and TSLDA are functioning separately.

➤ APLDA is having jurisdiction of 13 Districts of A.P. State





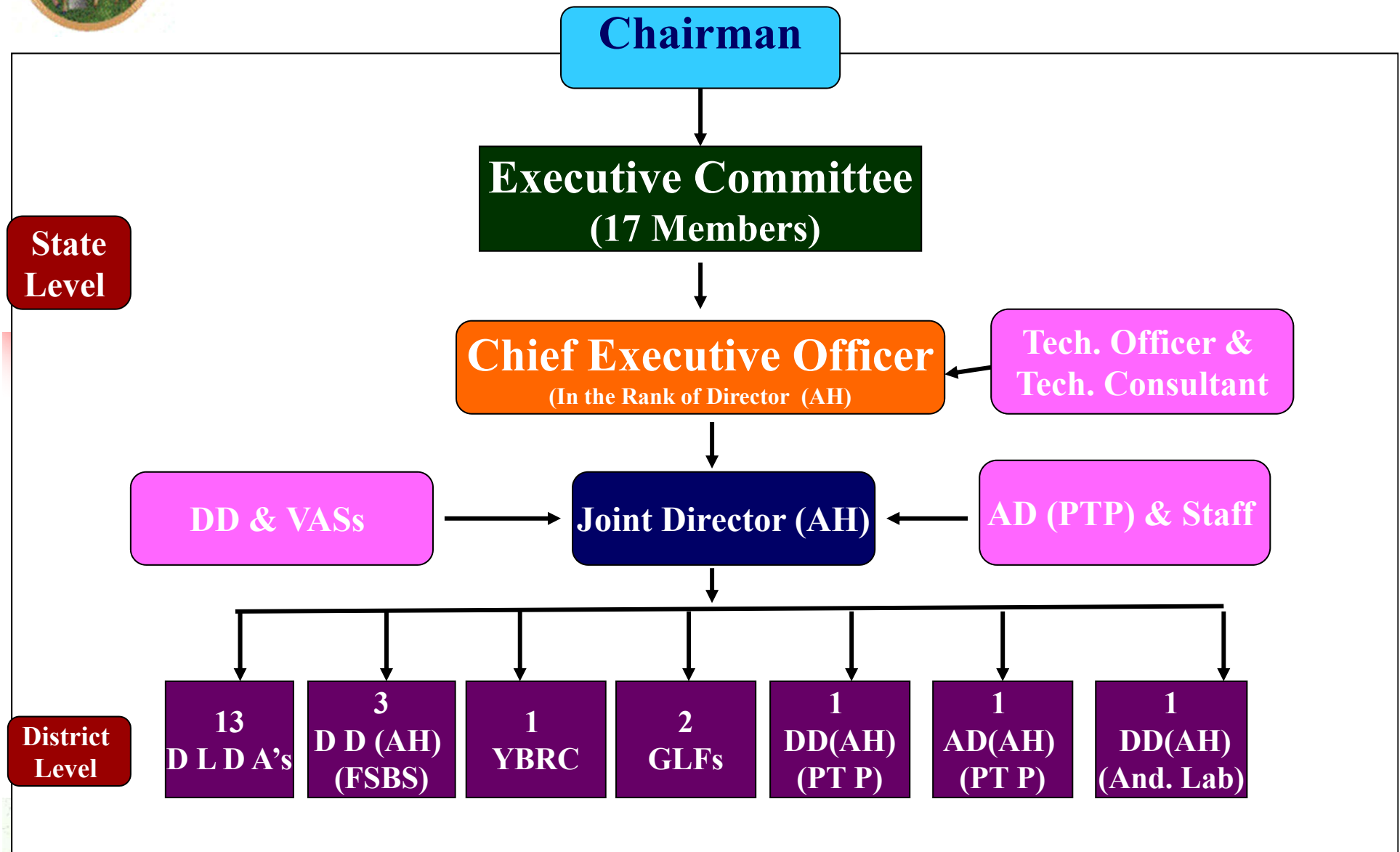
Objectives of APLDA

- To Improve the productivity of cattle and buffaloes in the State through genetic improvement.
- To Organize supply of quality inputs required for Artificial Insemination including cold chain.
- To restructure Bovine Breeding operations in the State and re-cycle fee for development.
- To provide door-step AI services to the farmers through trained rural youth i.e. Gopalamitras.



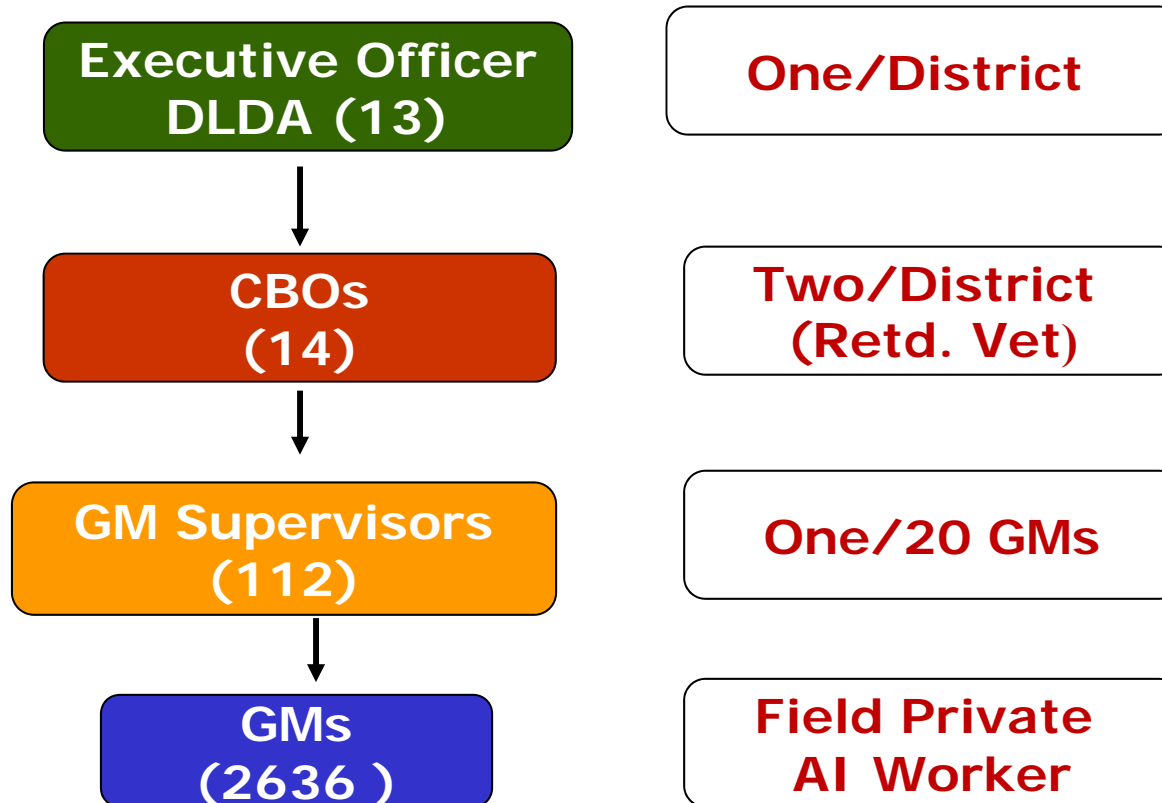


Organizational structure of APLDA





PROGRAMME IMPLEMENTATION NETWORK AT DISTRICT LEVEL





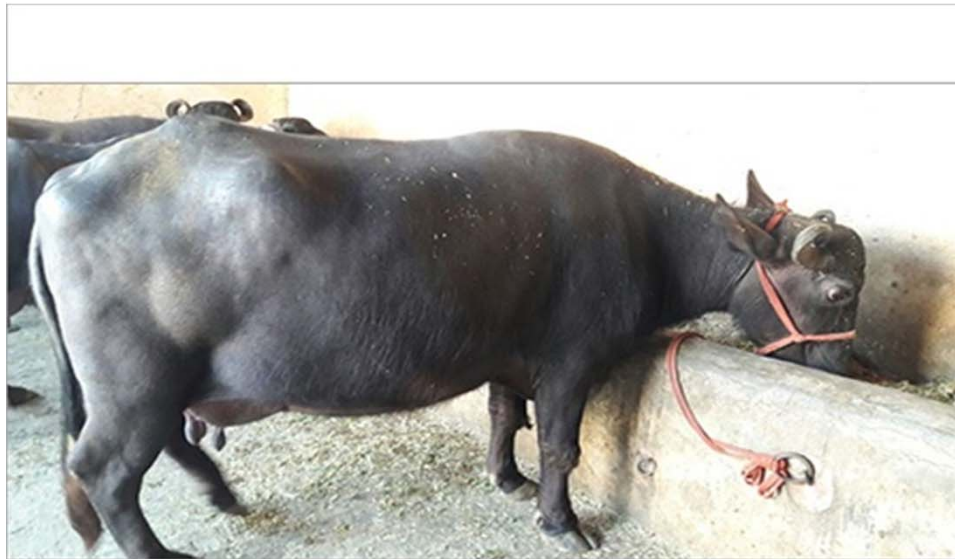
Agencies Involved in AI Delivery Mech.

S. No	Agency	No. of Centers
1	AH Department	3043
2	AP Livestock Development Agency	2636
3	APDDCF	477
4	BAIF	
5	JK Trust	
6	University	
	Total	6156





Bovine Population & Percentage

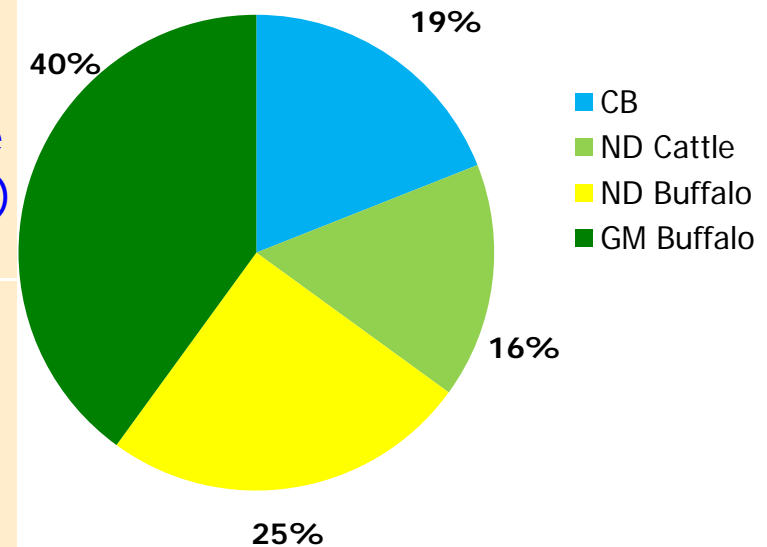


Sl. No.	Breed	Population	%	
1	GM Buffalo	2157602	40	59% (improved Variety)
2	ND Buffalo	1362005	25	
3	CB cattle	1017336	19	41% (ND Variety)
4	ND Cattle	881554	16	
	Total	5418497	100	



Livestock Population & Percentage

Sl. No.	Breed	Population	%	
1	GM Buffalo	2157602	40	59% (improved Variety)
2	CB cattle	1017336	19	
3	ND Buffalo	1362005	25	41% (ND Variety)
4	ND Cattle	881554	16	
	Total	5418497	100	





Breeding Policy - Summary

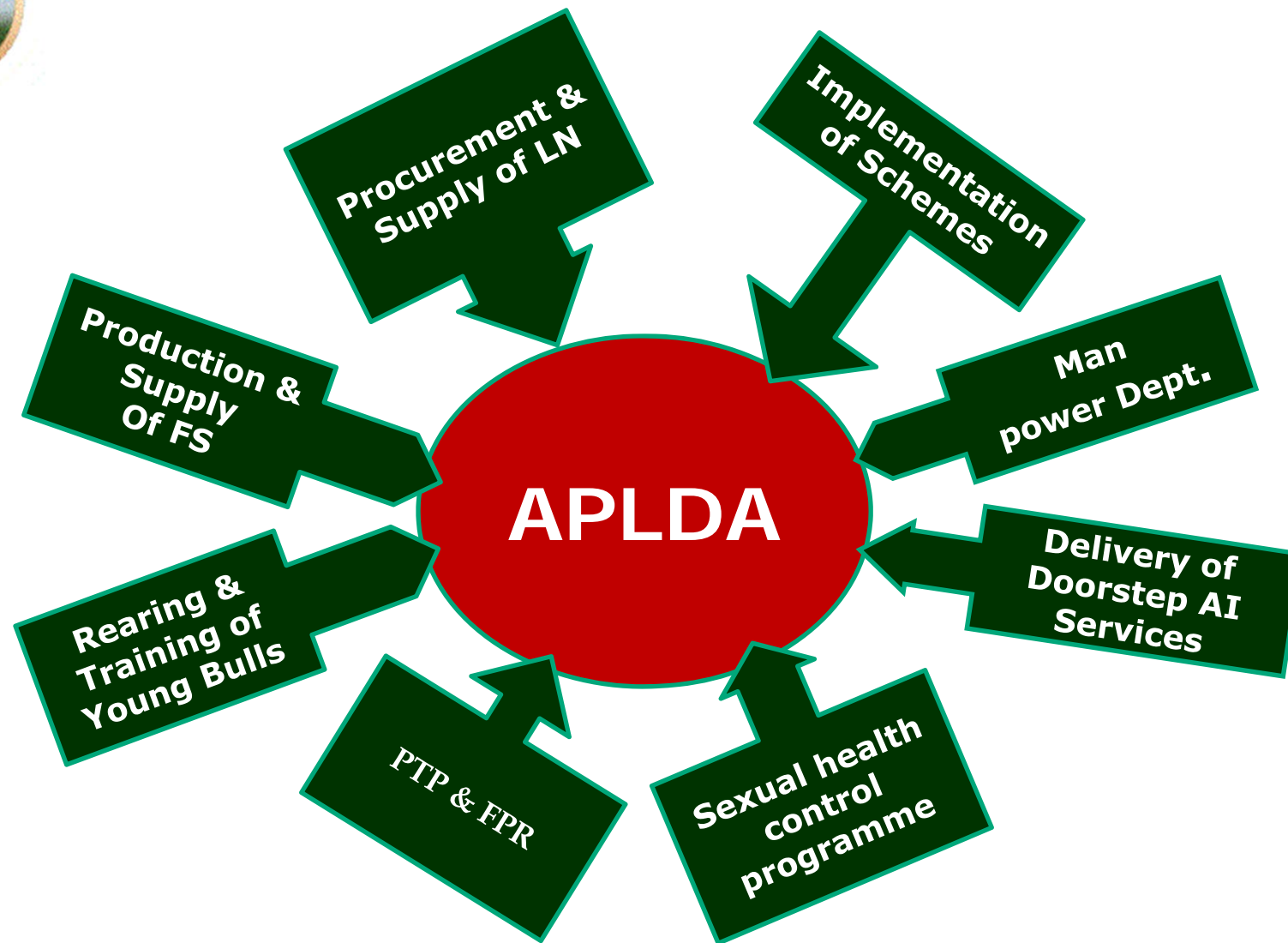
Andhra Pradesh is in-line with the National Breeding Policy, the main features are

- a. Upgrading the non-descript as well as graded buffaloes.
- b. Conservation of indigenous breeds
- c. Crossbreeding of non-descript local cattle
- d. Inter-se-mating of crossbred cattle



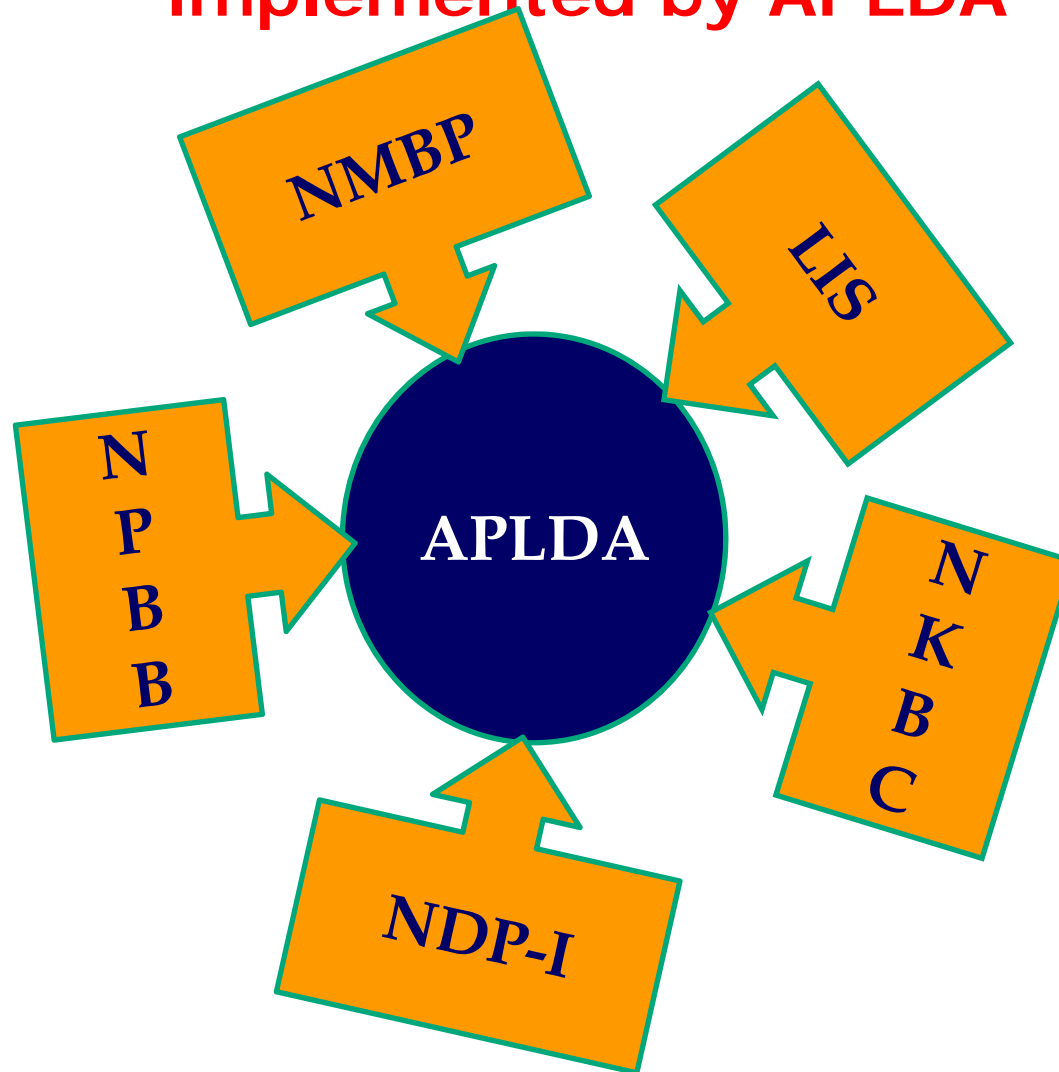


ACTIVITIES OF APLDA





Flagship Programmes / Schemes implemented by APLDA





PILLARS OF ARTIFICIAL INSEMINATION PROGRAMME

- Production and distribution of Frozen Semen.
- Timely supply of adequate Liquid Nitrogen.
- Timely supply & replacement of AI kits & containers
- Training of AI technicians.
- Regular Camps- Fertility, Milk Yield & Calf rallies
- Awareness building among farmers.
- Monitoring of AI work.





A.I register particulars

- 1.Name of the farmer
- 2.Address of the farmer
- 3.Aadhaar number
- 4.Mobile number
- 5.Category & Caste
- 6.Kind of animal (cattle/buffalo)
- 7.Number of lactation
- 8.Number of inseminations done/ straws used after calving
- 9.Milk yield of the animal (Ltrs).
- 10.Straw details (Bull I.D)
- 11.Signature of the farmer
- 12.Signature of the A.I Technician
- 13.Date of conception
- 14.Date of delivery
- 15.Calf born records





Work done particulars

S.No	depart ment	ac tiv ity	Ann ual targ et	Target up to last month	Achieve ment during month	Progressi ve achieve ment	% Achievement up to last month
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1.

	Animal Husbandry		<ol style="list-style-type: none"> 1. A.I done 2. Animals inseminated 3. Found positives 4. Calves born 5. Conception rate 6. Calving rate 7. No. of A.I / Conception 8. % coverage of breedable population 9. No. of Gopalamithras present 10.No. GM centres vacant 11.No. of GMs under induction training 12.No. of GMs under refresher training 13.No. of FSD received 14.No. of FSD distributed 15.Balance of FSDs 				
	APLDA						
	Others						







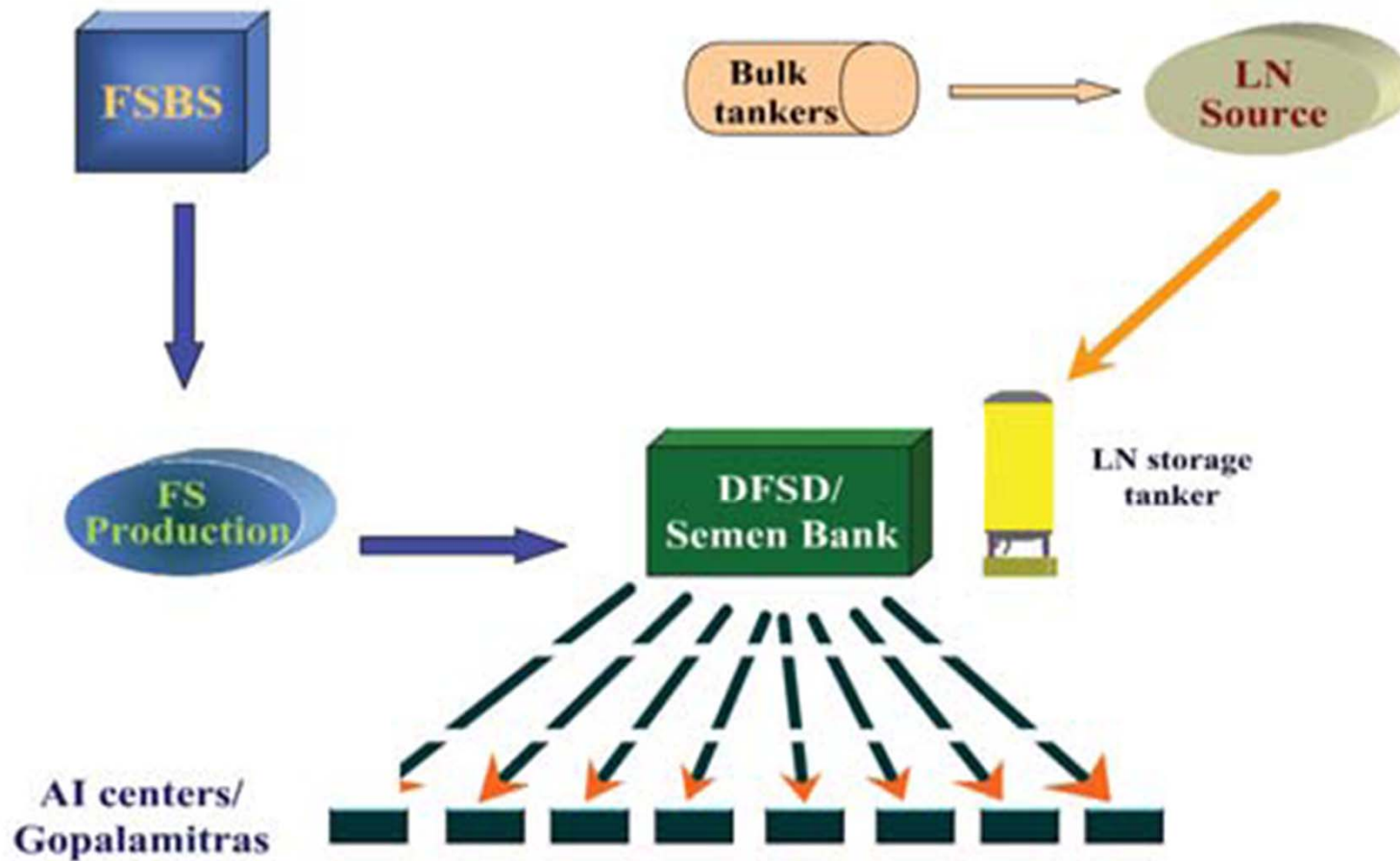
STATUS OF APLDA IN THE COUNTRY

- *APLDA is the first State Implementing Agency registered under the project NPCBB.*
- *AP is recording highest number of inseminations in Buffaloes and second in overall inseminations.*
- *AP is consistently producing highest number of Frozen Semen Straws under Government Sector*
- **All the three FSBSs & Andrology Lab are well equipped & have ISO Certification.**
- **All the breeding bulls are maintained as per the MSP prescribed by the GOI.**
- **During the year 2015-16, the CMU evaluated two FSBSs and One graded as 'A' .**





Production/ Procurement and Distribution of Breeding Inputs (FS & LN)





SEMEN PRODUCTION IN A.P UNDER NPCBB PROGRAM

S. N o	Component	Phase-I		Phase-II	
		1999-00	2005-06	2006-07	2015-16
1	Number of Semen Stations	3	3	3	3
2	Number Bulls stationed	315	247	225	190
3	Number Semen doses produced (lakhs)	23.20	36.38	37.41	57.44
4	Number of doses / bull / year	7,365	14,729	16,627	30,232





Quality Testing of FS at Andrology Laboratory



- Andrology lab is a unique arrangement in the country
- Frozen Semen Samples are checked for quality control tests as per MSP.
- BSE of new bulls
- Data analysis





QUALITY CONTROL TESTS

1. Estimation of CFU
2. Estimation Sperm Concentration
3. Acrosomal Integrity Test
4. HOS Test
5. Sperm Morphology (Wet & Dry)
6. Breeding Soundness Examination
7. Analysis of the Data





GOPALAMITRA

(Private AI Worker)

An educated unemployed rural youth

**Village Committee will Identify-
Sarpanch & Local Vet**

**District Committee will Scrutinize -EO,
AD & DLDA Chairman**

State Level Committee will select -CEO





GM Training

- The Selected Candidate will be given (4) months training at RAHTCs
- Refresher training for two days
- Refresher training for (7) days – Backlog Maitris





Duties of MAITRIs

- Local Vet will introduce the GM to public in Gramsabha and will be handed over the AI kit
- GM will take Livestock Census
- Display his Identity at one or two places in Village





Duties cont..

- Will serve at door step after a call & do AI
- Enquire the farmer about the inseminated animal
- Examine the animal for PD after 90 days





Duties cont..

- Records the Calf birth
- Verify 100% crop & submit the photo to get incentive
- De-worms the calves regularly
- Enroll the calf under Govt. Schemes like Sunandini





Other duties of MAITRIs

- He will participate in de worming programme
- Identified as Village resource person to distribute feed & fodder
- Participate in JB
- Identification of High yielding milch Animals & Male calve





Duties cont..

- In insurance Programme
- Arranging for Infertility Camps, Calf rallies & Milk Yield Competitions
- Arranging for farmers meeting
- Distribution of Mineral Mixture





CALF RALLIES

- Identification of Centre and wide publicity will be done
- Inaugurated by Public representative
- Calves Born Out of AI will be pooled
- Best Calves will be judged
- De-worms the Calves
- Prizes to the best calves-category wise



March 2, 2017



Fertility Camps

- Identification of Centre and wide publicity will be done
- Experts will screen the infertile animals and treat accordingly
- De-worms the Livestock
- Analyze the cases Screened
- Follow up will be taken up to make them 70-80% fertile





Milk yield Competition

- Identification of Division and wide publicity will be done
- Inauguration by Public Representatives
- Identification of animals Breed wise
- 3 times milk will be recorded
- Breed wise Awards will be given
- Milk yield competition-costs about Rs.20lakh. APLDA is sanctioning Rs.3 lakh





INCENTIVES TO MAITRIS

1. Sustenance allowance of Rs.2000 from Govt. and Rs.1500 from APLDA funds
2. An Incentive of Rs.50/- per calf produced
3. Insurance facility under CM & PM programmes up to Rs.5lakh
4. Hospitalized Charges
5. Mobile phone Charges @ Rs.110/ month
6. Dress Code
7. (3) Best Maitris will awarded and rewarded
8. In case of accidents Rs.10000 from APLDA & DLDA
9. In case of death Rs.25000 from APLDA & DLDA
10. In case of death one of the eligible family member will be trained as Maitri





Rate per Straw

S.No	Year	Rate/ straw in Rs.
1	Up to 1999	2
2	1999-2003	10
3	2003-2010	20
4	2010-2011	30
5	2011-2017	40





Name of the Project and Amount Sanctioned (Rs. in lakhs)

Sl. No.	Name of the Project	Year		Budget Sanctioned	Budget Utilized
		From	To		
1	NPCBB-Phase-I	2000-01	2005-06	4003.00	3980.60
2	NPCBB-Phase-II	2006-07	2013-14	7631.605	7163.13
3	NPBB	2015-16	2016-1	5090.00	600.00





National Project On Cattle & Buffalo Breeding (NPCBB-II)

Components:

1. Strengthening LN transport and distribution System
2. Bull Production Programme.
3. Support to SIAs, Breeders Assns., Goshalas, Cooperatives, NGOs for Field Performance Recording, Progeny Testing, ONBS etc.
4. Procurement of breeding bulls for natural service.
5. Strengthening AI network.
6. Strengthening field AI network.
7. Manpower Development.
8. Strengthening / establishment of training centres.
9. Assistance to Private AI Workers.
10. Assistance to SIAs.
11. Sexual health control programme





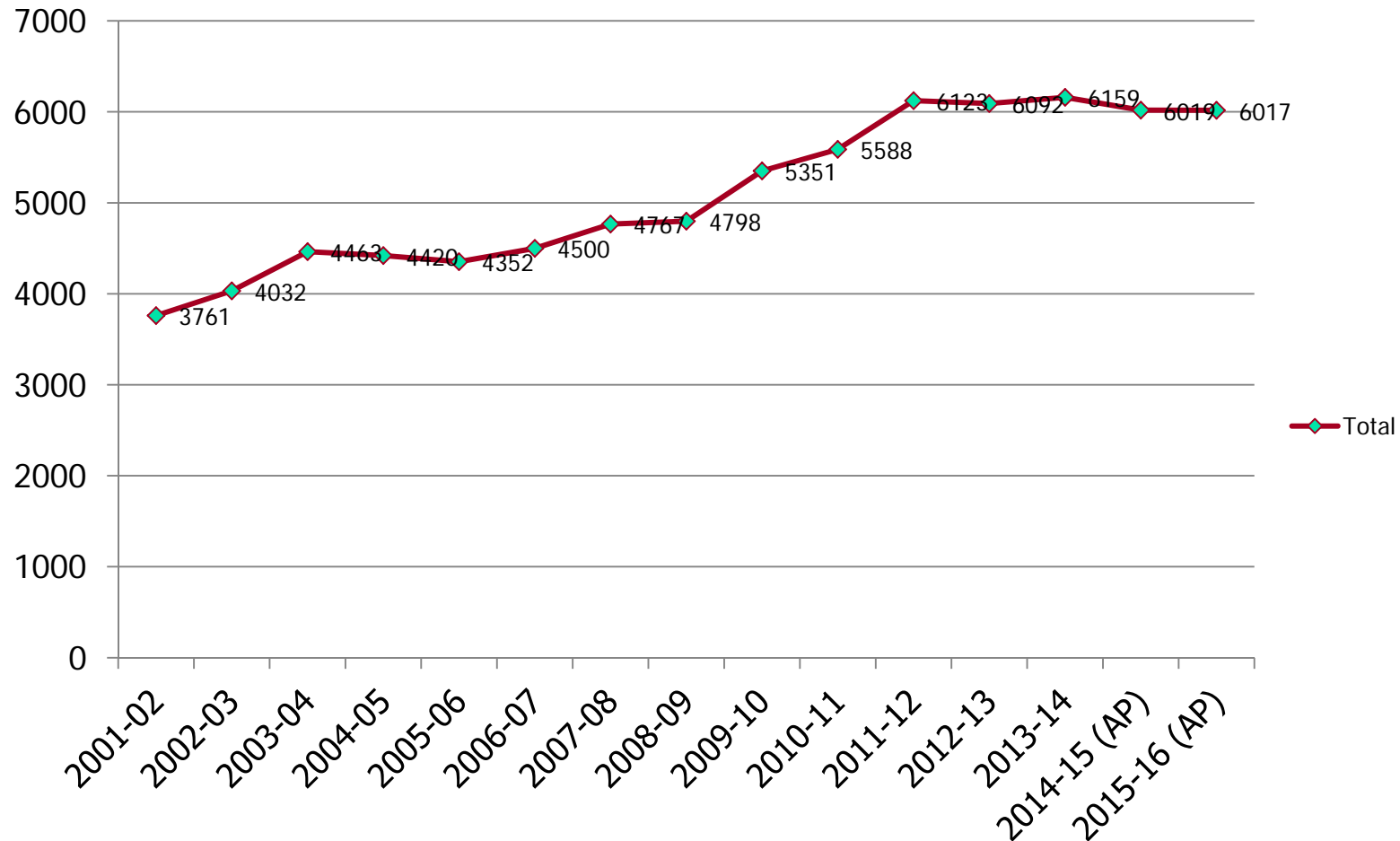
A.I. Centers Institutional wise

Sl. No.	Year	AHD	APLDA	Others	Total
1	2001-02	2769	706	286	3761
2	2002-03	2654	995	383	4032
3	2003-04	2911	1175	377	4463
4	2004-05	2960	1116	344	4420
5	2005-06	2929	1213	210	4352
6	2006-07	2960	1280	260	4500
7	2007-08	2970	1429	368	4767
8	2008-09	3005	1391	402	4798
9	2009-10	2969	1999	383	5351
10	2010-11	3079	2220	289	5588
11	2011-12	3021	2832	270	6123
12	2012-13	3106	2700	286	6092
13	2013-14	3031	2642	486	6159
14	2014-15 (AP)	3031	2624	408	6019
15	2015-16 (AP)	3043	2636	477	6017



A.I. Centers Year wise

Total A.I Centers





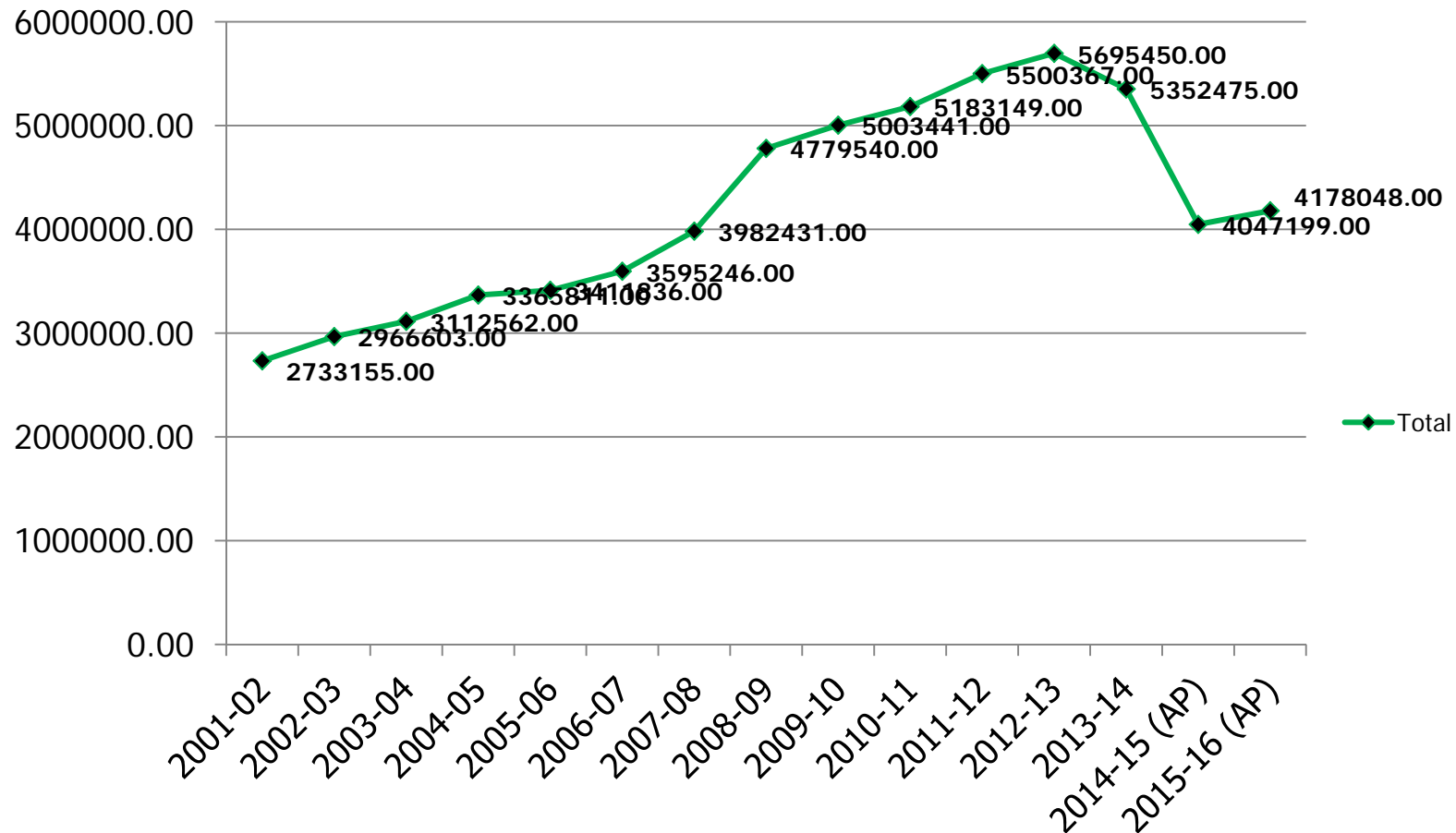
A.I. Done Institutional & Year wise

Sl. No.	Year	AHD	APLDA	Others	Total
1	2001-02	2378371	163745	191039	2733155
2	2002-03	2541461	241839	183303	2966603
3	2003-04	2617618	285454	209490	3112562
4	2004-05	2730216	407426	228169	3365811
5	2005-06	2717864	551793	142179	3411836
6	2006-07	2771915	704753	118578	3595246
7	2007-08	2930283	864797	187351	3982431
8	2008-09	3303973	1179684	295883	4779540
9	2009-10	3106938	1529881	366622	5003441
10	2010-11	2940096	1925432	317621	5183149
11	2011-12	2606549	2483373	410445	5500367
12	2012-13	2488413	2726232	480805	5695450
13	2013-14	2261908	2730409	360158	5352475
14	2014-15 (AP)	1835615	2030746	180838	4047199
15	2015-16 (AP)	1905230	2086893	185925	4178048



A.I. Done Year wise

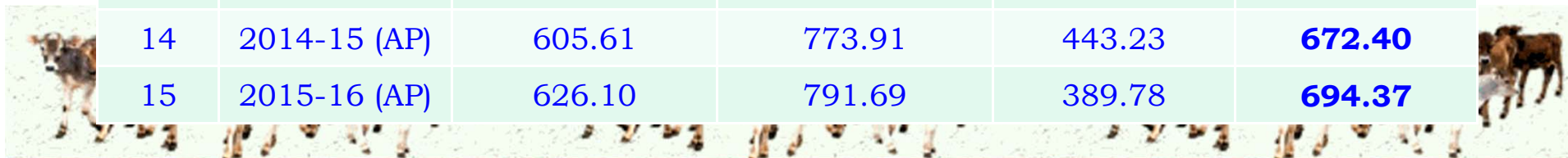
Total A.I Done





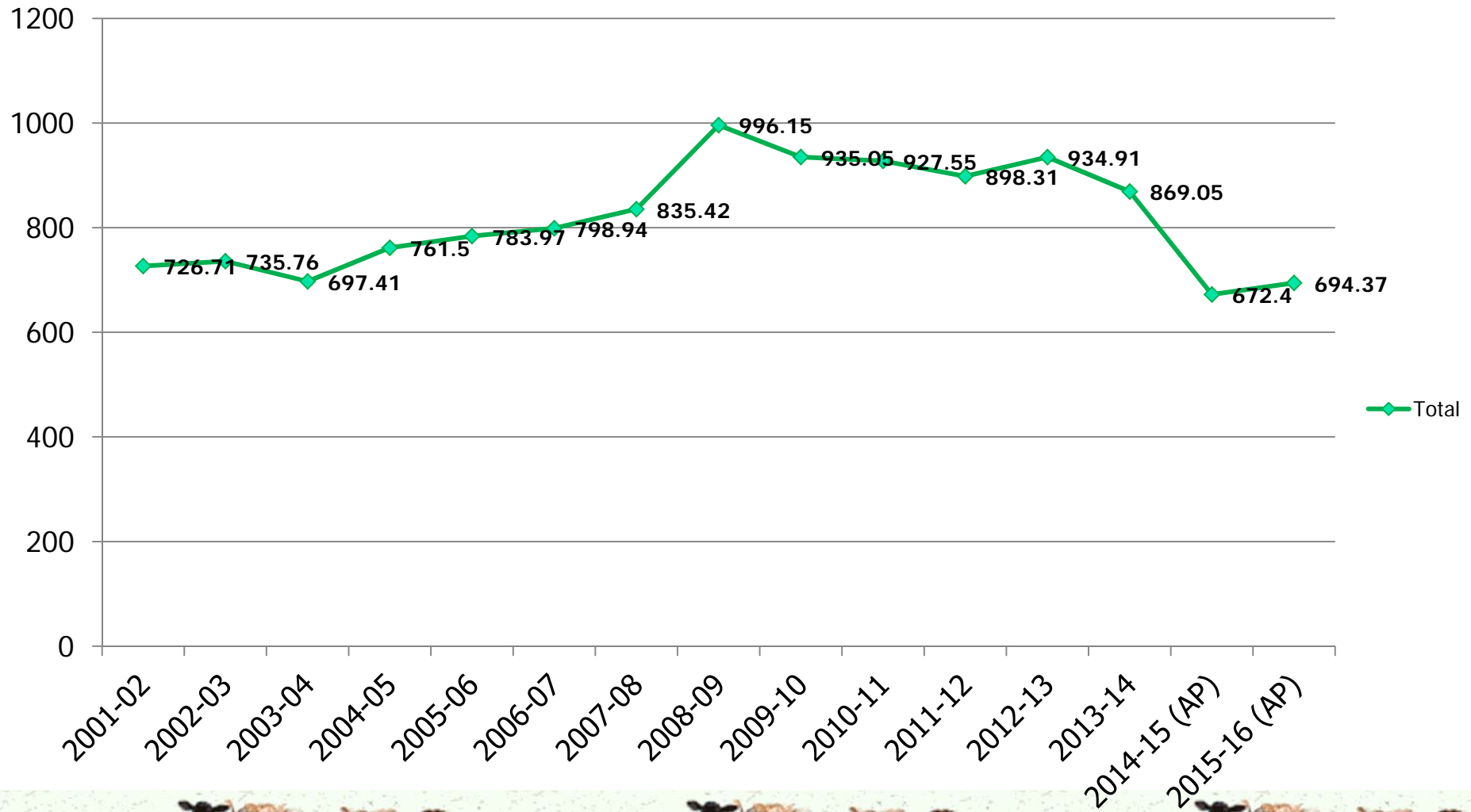
Average AI Done/Center/Year

Sl. No.	Year	AHD	APLDA	Others	Total
1	2001-02	858.93	231.93	667.97	726.71
2	2002-03	957.60	243.05	478.60	735.76
3	2003-04	899.22	242.94	555.68	697.41
4	2004-05	922.37	365.08	663.28	761.50
5	2005-06	927.92	454.90	677.04	783.97
6	2006-07	936.46	550.59	456.07	798.94
7	2007-08	986.63	605.18	509.11	835.42
8	2008-09	1099.49	848.08	736.03	996.15
9	2009-10	1046.46	765.32	957.24	935.05
10	2010-11	954.89	867.31	1099.03	927.55
11	2011-12	862.81	876.90	1520.17	898.31
12	2012-13	801.16	1009.72	1681.14	934.91
13	2013-14	746.26	1033.46	741.07	869.05
14	2014-15 (AP)	605.61	773.91	443.23	672.40
15	2015-16 (AP)	626.10	791.69	389.78	694.37





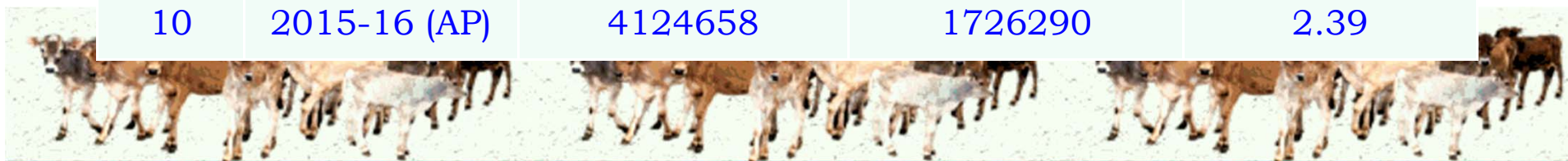
Average AI Done/Center/Year





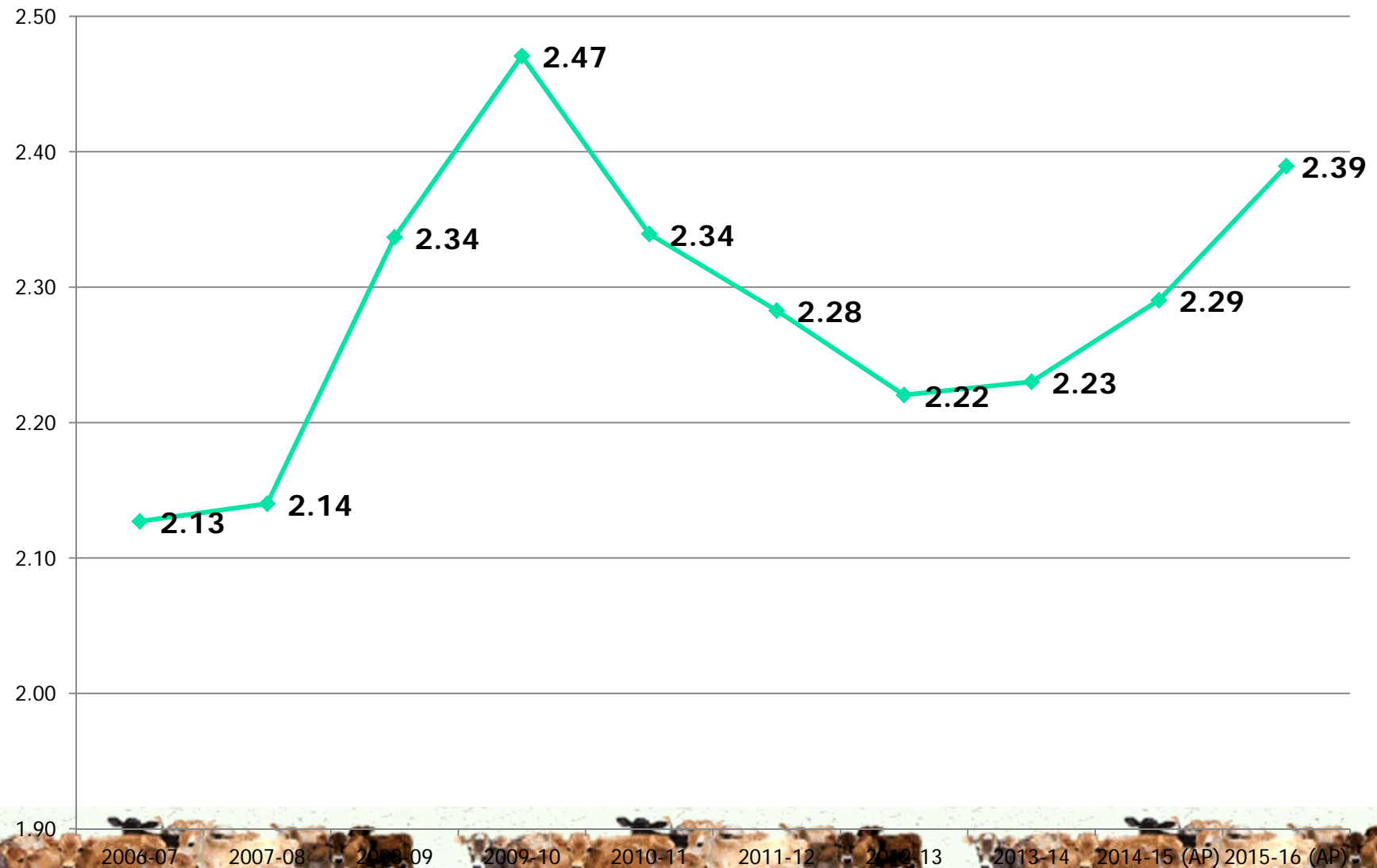
A.I. Per Conception year wise

Sl. No.	Year	No. of AI done	Found Positives	AI Per Conception
1	2006-07	3595246	1690295	2.13
2	2007-08	3982431	1860909	2.14
3	2008-09	4779540	2045337	2.34
4	2009-10	5003441	2025110	2.47
5	2010-11	5183149	2215746	2.34
6	2011-12	5500367	2409536	2.28
7	2012-13	5695450	2565119	2.22
8	2013-14	5352475	2400056	2.23
9	2014-15 (AP)	4047199	1767104	2.29
10	2015-16 (AP)	4124658	1726290	2.39





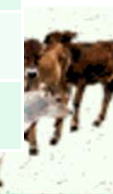
AI Per Conception





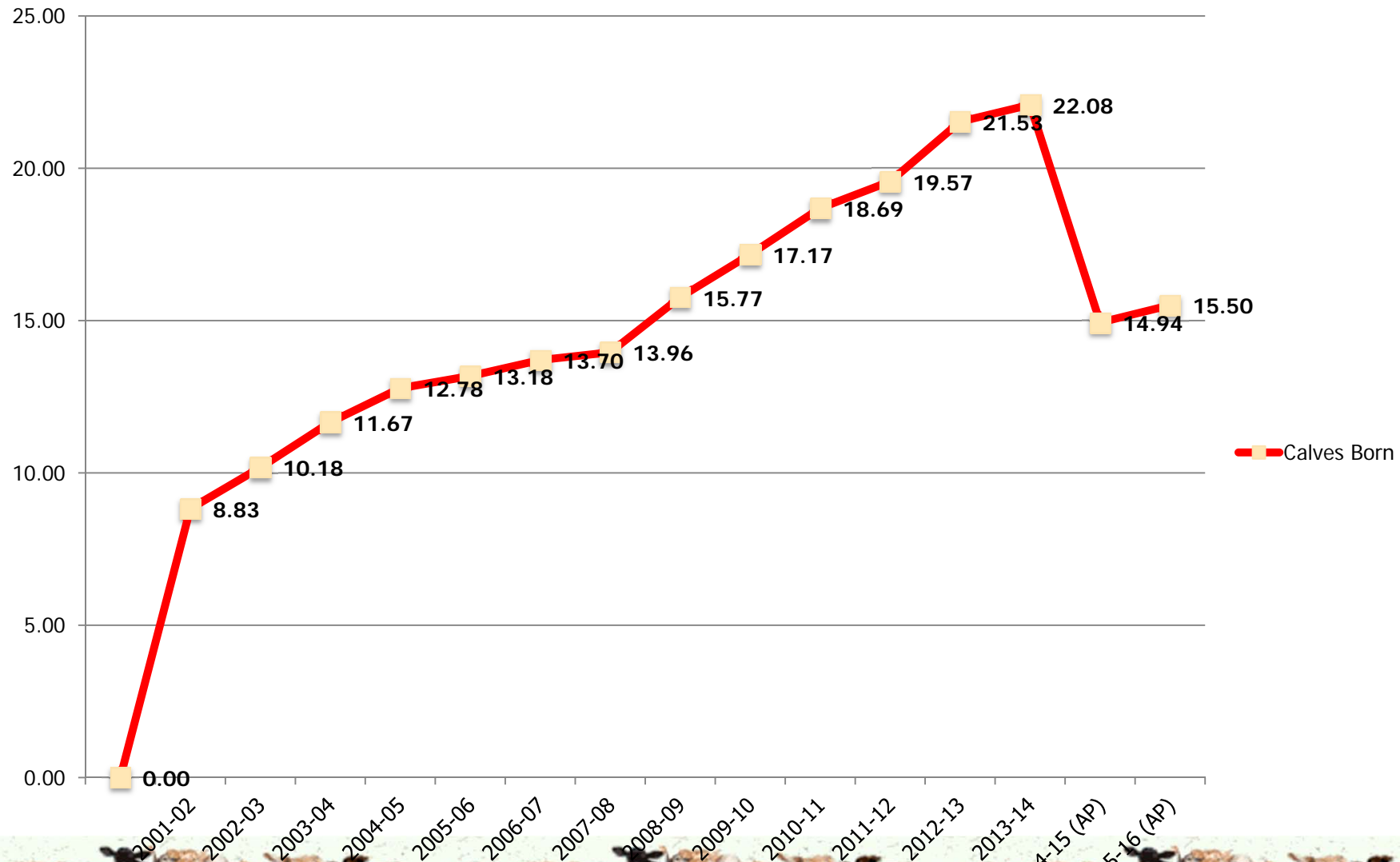
Calves Born Institutional & Year wise

Sl. No.	Year	Dept.	GM	Others	Total
1	2001-02	809277	29678	43663	882618
2	2002-03	914342	61749	41656	1017747
3	2003-04	1019111	86941	60465	1166517
4	2004-05	1094466	111942	71730	1278138
5	2005-06	1095107	159321	63570	1317998
6	2006-07	1118780	216989	34613	1370382
7	2007-08	1093983	264216	37664	1395863
8	2008-09	1181404	339049	56074	1576527
9	2009-10	1192768	439213	85296	1717277
10	2010-11	1189149	596813	82836	1868798
11	2011-12	1121618	724856	110173	1956647
12	2012-13	1019504	976103	157405	2153012
13	2013-14	989085	1087200	131989	2208274
14	2014-15 (AP)	678143	771871	43596	1493610
15	2015-16 (AP)	733694	776097	40645	1550436





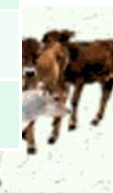
Calves Born year wise (in Lakh)





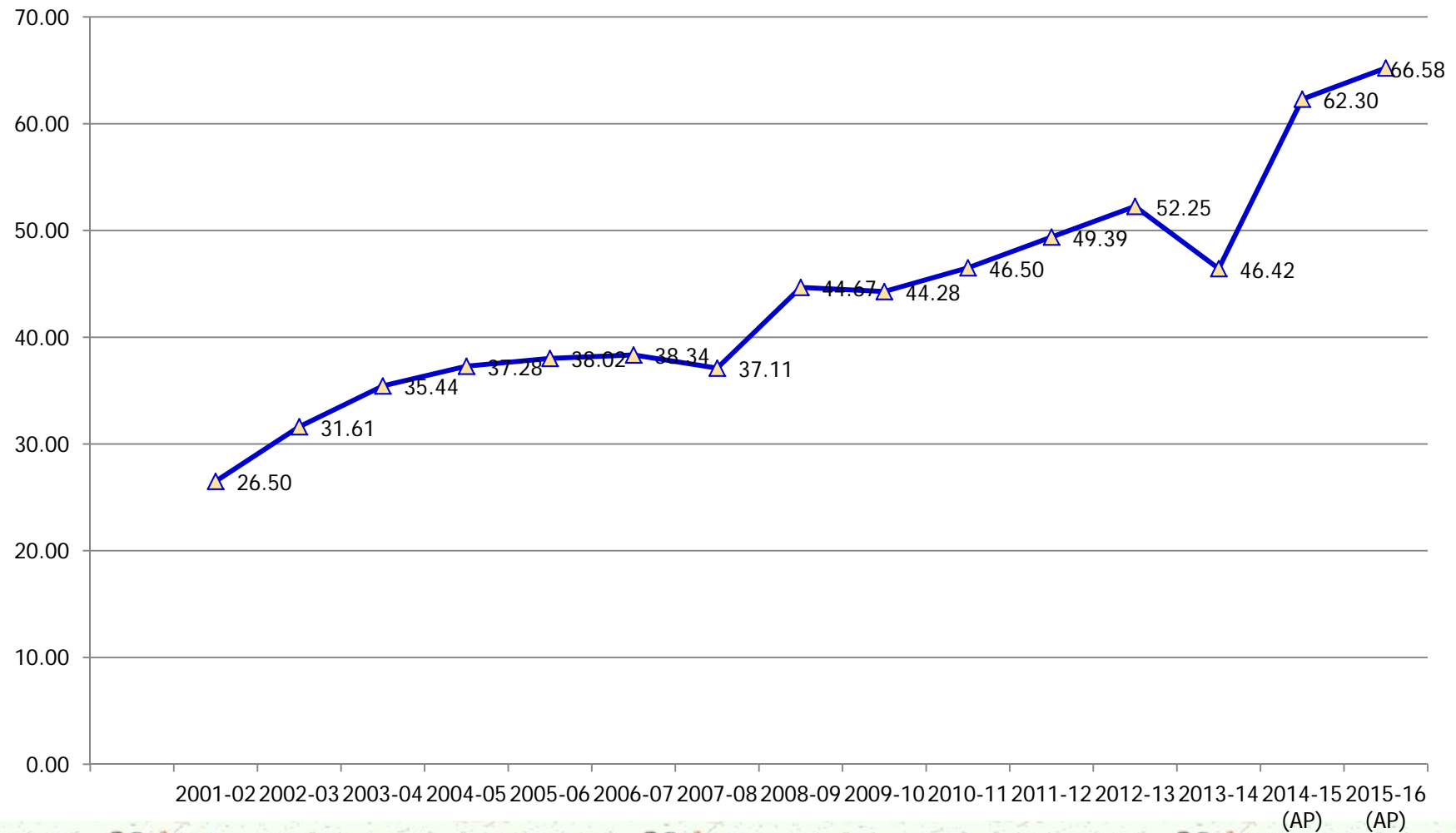
Statement Showing the particulars of Coverage of Breedable Population & % of Coverage of Breedable Population

Sl. No.	Year	Breedable Population	Animal Insemination	% Coverage of Breedable Population
1	2001-02	8667029	2296666	26.50
2	2002-03	8985796	2840432	31.61
3	2003-04	8346173	2957672	35.44
4	2004-05	8604530	3208097	37.28
5	2005-06	8604530	3271683	38.02
6	2006-07	8845873	3391432	38.34
7	2007-08	10009565	3714667	37.11
8	2008-09	10133925	4527125	44.67
9	2009-10	10138664	4489269	44.28
10	2010-11	9971772	4636534	46.50
11	2011-12	10128396	5002043	49.39
12	2012-13	9606161	5019380	52.25
13	2013-14	10414075	4834390	46.42
14	2014-15 (AP)	5643926	3516248	62.30
15	2015-16 (AP)	5418497	3607504	66.58





% Coverage of Breedable Population





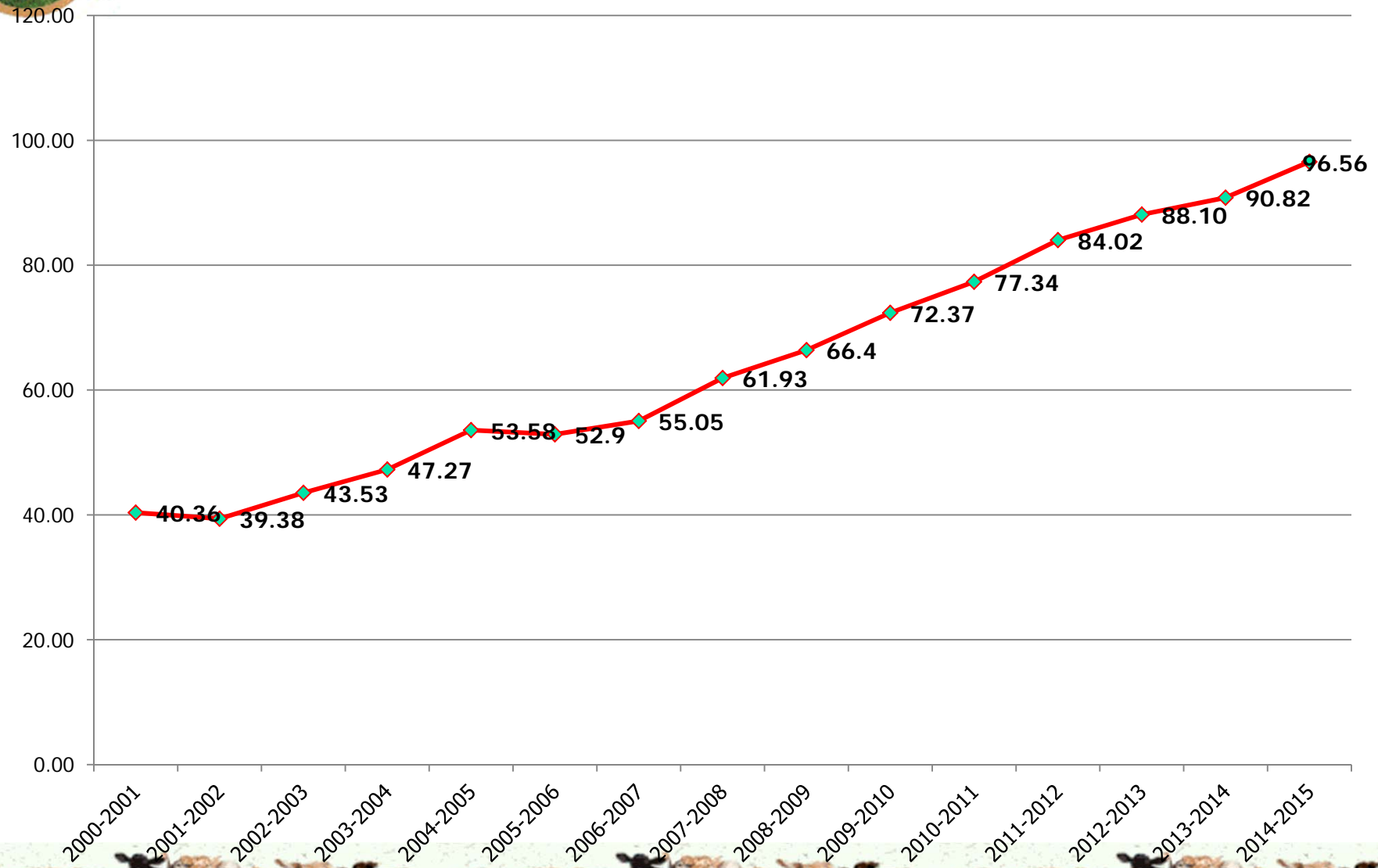
Statement Showing the year wise Milk Production in Andhra Pradesh State

Sl. No.	Year	Milk production (Lakhs -MTs)
1	2000-2001	40.36
2	2001-2002	39.38
3	2002-2003	43.53
4	2003-2004	47.27
5	2004-2005	53.58
6	2005-2006	52.9
7	2006-2007	55.05
8	2007-2008	61.93
9	2008-2009	66.4
10	2009-2010	72.37
11	2010-2011	77.34
12	2011-2012	84.02
13	2012-2013	88.10
14	2013-2014	90.82
15	2014-2015	96.56





Milk production (Lakhs -MTs)





Future Plans and Interventions

- Proposed to enhance the AI Fee from Rs. 40/- to Rs. 70/-.
- Proposed to establish Fertility Centres
- APLDA is designing own applications (APPs).
- GEO tagging of all vehicles.
- Establishment of IVF Mobile van to collect oocysts.





Future Plans and Interventions contd..

- Formation of District and State Level Ongole Breed Development Committees.
- PTP Programme in Buffaloes and Pedigree selection in Ongole Cattle.
- Establishment of National Kamadhenu Breeding Centre (NKBC).
- Adopting one village for development of Gir Breed and also to enhance the income of the farmers through dairy and converting to Organic farming in the village of Kakulapadu of Bapulapadu Mandal in Krishna District of Andhra Pradesh.





*Thank you
Sir*

