



# **IGFRI OAT GERmplasm CATALOGUE**



**INDIAN GRASSLAND & FODDER RESEARCH INSTITUTE**

# IGFRI OAT GERmplasm CATALOGUE

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Electronic Release of Catalogue

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## Foreword

Oat (*Avena sativa* L. ) is an important cereal forage crop and ranks sixth in world cereal production. The crop is widely cultivated for use as food, feed and fodder. Concerted breeding efforts at IGFRI, Jhansi has created a lot of genetic diversity in this crop. This included the exotic germplasm as well as advanced breeding lines developed through hybridization and mutation.

In the present document authors have made significant effort of evaluating the available genetic diversity for proper characterization. This will be of immense use to the research workers engaged in oat improvement programme in the country and abroad. The catalogue assumes further importance in the present TRIPs era of characterizing and documenting the available genetic diversity.

I appreciate the work done for this valiant effort and am sure that it will be a very important tool in the hands of oat breeders and scientists.

**(P. S. Pathak)**  
Director

## Preface

Oat (*Avena sativa* L.) is an important cereal fodder of Rabi season cultivated in northern and southern parts of the country. Considering the wide genetic diversity of oat available at IGFRI, Jhansi, a need was felt to evaluate them in an uniform condition for proper documentation and identification of lines for various traits. The germplasm collected from abroad as well as breeding lines of different institutes, SAUs were evaluated along with the advanced breeding lines of IGFRI, Jhansi.

In the present endeavour, efforts have been made to characterize the germplasm for important qualitative and quantitative traits. The evaluation has been done both for single cut as well as multicut situations so as to facilitate oat workers to assess the potential of the accessions for either of the situations. The document also provides a list of accessions that can serve as donors for different agronomic traits in an improvement programme. The diversity present for various traits have been statistically analyzed and presented.

Authors are thankful to the Director of institute for facilities, encouragement and guidance.

**(R.N. Choubey)**

## INTRODUCTION

Oat (*Avena sativa* L.) a constituent of family Gramineae ranks sixth in world cereal production. The crop is widely cultivated for use as food, feed and fodder. As an introduced crop in India, it is grown in rabi season mostly for fodder, however, of late, its grain is being used as baby food, breakfast food and animal feed. The crop has been adopted well by the farmers because of its multicut nature and high yield of nutritious palatable fodder. The oats are widely grown in Uttar Pradesh, Madhya Pradesh, Haryana, Punjab, Himachal Pradesh, Rajasthan, Bihar, Gujarat, Andhra Pradesh and hilly tracts of southern plateau.

**Origin :** The center of origin of oats is Asia Minor. The genus *Avena* as such incorporates, diploid, tetraploid and hexaploid species based on a basic chromosome number of  $x = 7$ . The cultivated oat *Avena sativa* L. ( $2n = 6x = 42$ ), a natural allopolyploid, together with wild weedy hexaploid species like *A. sterilis* and *A. fatua*, have evolved through repeated cycles of interspecific hybridization and polyploidization, combining three distinct diploid genomes. All the hexaploid species have a genomic constitution of AACDD. It is well established that the domesticated oat *A. sativa* has evolved from the wild hexaploid species *A. sterilis*, which is corroborated by the fact the hybrids between two are fully fertile.

**Distribution :** The distribution of different wild and weedy species is confined mainly to the temperate regions of northern hemisphere. The countries bordering Mediterranean, Turkey, Iran, Iraq and parts of the USSR are rich in the diversity of species.

**Climate and soil :** Oats flourish in cool and moist climates. The crop can be grown at

temperatures varying between 5 to 30°C, however, optimum temperature required is 25°C. At low temperature, its germination is delayed, while grain production is hampered by hot, dry weather, specially from heading through the grain filling period.

Under favorable temperature and moisture conditions, oats can be best cultivated in well drained rich friable loams. Oats can tolerate acid soils up to a pH of 4.5 and is also fairly tolerant to salt conditions.

**Cultivation :** Under Indian conditions, October (first week) to December (second week) is considered as the best sowing period. For forage (multicut), the crop should be sown in October. Usually the seed is broadcast in case of fodder crop and is sown in rows 25-30 cm apart, if the crop is meant for grain. Oats are sown at a soil depth of 2 to 4 cm.

Seed rate varies from 70-80 kg (seed crop) to 90-100 kg (fodder crop) per hectare. The tillering and growth depends upon plant density. Therefore, a moderate reduction in seeding rates seldom results in a yield reduction due to production of vigorous plants with higher number of tillers.

Irrigation requirement depends on soil type and climate., In general oat crop requires three to four irrigations. The tillering and heading stages are critical for irrigation. The application of 40-100 kg of N per ha and 20-30 kg of  $P_2O_5$  per ha has been found to be beneficial.

**Harvesting, threshing and yield :** The crop matures in about 130-150 days. For fodder production, two to four cuts are taken from December to April and the crop is allowed to

set seed. For single cut, plants are harvested once at 50 per cent flowering stage. For multicut, the first cut is taken at 50 days after sowing and the subsequent cuts at 30 days interval. In case of dual purpose oats, the plants may be allowed to produce grains after a single cut for forage.

In case of grain production the crop is harvested at grain maturity. However, in fertile soils, one cut as forage at 50 days after sowing may be taken to avoid lodging of the plants at maturity.. Harvesting should be done when the grains are mature, but the straw is still some -what green, otherwise there is likelihood of loss of grain due to shedding. With normal cultivation practices, the crop produces 500-600 q/ha green fodder and 20-30 q/ha of grain.

**Uses :** Oats both as forage and grain are good source of protein, fiber and minerals. They have more protein per kg than corn. Oats have manifold uses- animal feed/fodder/human food and industrial uses. It is used as green crop, hay and silage for animals. Most of the oat grain world wide is consumed as animal feed. It is principally fed to dairy cattle, horses, mules and

turkeys, with lesser quantities fed to hogs, beef cattle and sheep. Oat hulls, a food processing by-product is used as an animal feed, fuel for power plants and in chemical industry.

### **Oat improvement programme - Objectives at IGFRI, Jhansi :**

The ever increasing human and livestock population together with limited availability of land resources for cultivated fodder has led the forage breeders to tailor multipurpose varieties, that can fit in different cropping systems. Keeping this in view, efforts at IGFRI, Jhansi are being made on following three major lines

- Development of non - lodging and erect types ideal for intercropping with legume forages like pea, berseem, senji *etc.*
- Development of dual purpose forage cum grain types with good grain yield/quality which could be left for grain after initial 1 or 2 cuts for fodder.
- Development for multicut late flowering and high tillering varieties with high yield and nutritive value per unit time and per unit area.

## BOTANICAL DESCRIPTION

The plant is typical graminaceous. The main stem produces a number of tillers. Primary tillers arise in the axils of the older basal leaves of the main stem. Secondary tillers arise in the leaf axils of primary tillers. The leaves differentiate from nodes and are narrow and unstalked, arranged in two rows alternately on opposite sides of the stem. The flattened upper part of the leaf i.e., lamina or blade is joined to the basal part of the leaf called sheath. The fully emerged lamina is long and narrow, tapering to a point and flat with a small keel.

**Inflorescence :** The inflorescence is compound comprising of a series of flowering branches with spikelets. The inflorescence terminates the stem in the form of a panicle. Spikelet differentiation begins first with the spikelet at the tip of the main axis and proceeds basipetally.

Within the spikelet the flowers develop

acropetally. The spikelet consists of 2-3 slender tapering florets borne alternately in two rows on opposite sides of a very short axis, the rachilla. Thus, the floret includes the rachilla, the lemma or flowering glume, the palea, and the reproductive organs. The organs of reproduction consist primarily of the three stamens, their filaments and anthers, the single ovary with its style and the bifid stigma. The margins of the smaller palea are embraced by the lemma which has a rounded back and may carry an awn. At anthesis, the anthers dehisce and ripe pollen is shed on to the feathery stigma. The florets may open due to swelling of the lodicules at base so that the anthers are exerted to hang outside the glume.

Oat is a self pollinated crop. Natural cross pollination by wind occurs occasionally and varies from 0.4 to 1.3 per cent.

## DATA RECORDING

Seeds of oat lines which include exotic and indigenous germplasm lines and advance breeding lines were sown in October in augmented design in 3 m row plots. Line to line distance of 50 cm and plant to plant distance of 5 cm was maintained. JHO 851, UPO 212 were used as checks and sown randomly in each block. Data was recorded for both multicut and single cut situations.

### Data recorded at 50 % flowering stage and maturity under single cut situation

A single row of 3 m length was evaluated under single cut situation. Data were recorded at 50 % flowering stage and at maturity.

**Days to 50 % flowering (ch 1) :** Date of flowering was recorded when 50 % plants in a row showed emergence of flowers. Days to 50 % flowering were deduced from recorded date of sowing.

**Days to maturity (ch 2) :** Date of maturity was recorded when almost all the plants in the row turn brown and seed is mature. Days to maturity was calculated from the date of sowing.

**Plant height (cm) (ch 3) :** Plant height was recorded as average value of three plants at 50% flowering stage.

**Number of leaves (ch 4) :** Number of leaves on main tiller was recorded.

**Leaf length (cm) (ch 5) :** Leaf blade length of 3<sup>rd</sup> leaf from top of the main tiller was recorded.

**Leaf width (cm) (ch 6) :** Leaf width at maximum breadth of 3<sup>rd</sup> leaf from top of the main tiller was recorded.

**Internode length (cm) (ch 7) :** Length of internode between 3<sup>rd</sup> and 4<sup>th</sup> node of the main tiller was recorded.

**Tillers / plant ( ch 8) :** Number of tillers per plant was recorded.

**Stem girth (cm) (ch 9):** Diameter of stem on the main tiller was recorded using vernier callipers.

**Green Fodder yield (gm) (ch 10) :** Green fodder yield per plant was recorded.

**Dry Fodder yield (gm) (ch 11) :** The plant was dried in oven and dry weight was recorded.

**Dry weight (%) (ch 12) :** The value was computed from dry and green weight of the plants.

**Flag leaf length (cm) (ch 13) :** Flag leaf blade length of main tiller was recorded.

**Flag leaf width (cm) (ch 14) :** Flag leaf width was recorded on the main tiller at maximum width.

**Peduncle length (cm) (ch 15) :** Peduncle length was recorded from the base of the panicle to the point of its origin.

**Axis length (cm) (ch 16) :** Axis length was recorded from the point of origin to the top.

**Axis branch number (ch 17) :** Number of branches of the axis was recorded.

**Spikelets / panicle (ch 18) :** Number of spikelets in a panicle was recorded.

**Florets/panicle (ch 19) :** Number of florets per panicle were recorded.

**Outer glume length (cm) (ch 20) :** Outer glume length of mature flower was recorded.

**Outer glume width (cm) (ch 21) :** Glume width at the point of maximum breadth was recorded from mature flower.

**1000 seed weight (g) (ch22) :** Weight of 1000 mature seeds was recorded

**Seed length (mm) (ch23) :** Length of mature



seed of primary floret was recorded.

**Seed width (mm) (ch 24)** : Width of mature primary floret seed was recorded.

**Quantitative data recorded under multicut situation**

A single row of plants was subjected to 3 cuts. First cut was taken at 45 days after sowing and subsequent cuts at 30 days interval. Tiller number, green fodder yield and dry matter yield per meter row length was recorded at each cut.

**Green fodder yield at 1<sup>st</sup> cut (gm) (ch 25)** : Green weight per meter row length was recorded.

**Tiller number at 1<sup>st</sup> cut (ch26)** : Number of tillers per meter row length was recorded.

**Dry fodder yield at 1<sup>st</sup> cut (gm) (ch27)** : Dry weight per meter row length was recorded.

**Green fodder yield at 2<sup>nd</sup> cut (gm) (ch28)** : Green weight per meter row length was recorded.

**Tiller number at 2<sup>nd</sup> cut (ch29)** : Number of tillers per meter row length were recorded.

**Dry fodder yield at 2<sup>nd</sup> cut (gm) (ch 30)** : Dry weight per meter row length was recorded.

**Green fodder yield at 3<sup>rd</sup> cut (gm) (ch 31)** : Green weight per meter row length was recorded.

**Tiller number at 3<sup>rd</sup> cut (ch 32)** : Number of tillers per meter row length was recorded.

**Dry fodder yield at 3<sup>rd</sup> cut (gm) (ch 33)** : Dry weight per meter row length was recorded..

**Total Green Fodder Yield (gm) (ch 34)** : Total green fodder yield of 3 cuts was computed.

**Total Dry fodder Yield (gm) (ch 35)** : Total dry fodder yield of 3 cuts was computed.

**Green : dry matter ratio (ch 36)** : Ratio of total green and dry weight was computed.

**Qualitative data recorded under single cut situation**

**Stem colour (ch37)** : Stem colour of the main tiller was recorded as Green (G), Light purple (LP), Purple (P) 30 days after sowing.

**Growth habit (ch38)** : Growth habit was recorded as Erect (E), Semi spreading (SS), Spreading (S) 30 days after sowing.

**Leaf colour (ch 39)** : Leaf colour of the main tiller was recorded as dark green (DG), Medium green (MG), Light green (LG) 30 days after sowing.

**Peduncle node constriction (ch 40)** : Constriction of the peduncle node was classified as highly constricted ( C), Medium constricted (M), less constricted (L), Bulged (B).

**Peduncle node colour (ch 41)**: Recorded as dark brown (D), Medium brown (MB), Light Brown (LB).

**Axis erectness (ch 42)** : Nature of the flowering axis was recorded as erect or semi-erect.

**Axis compactness (ch 43)** : Compactness of the flowering axis was recorded as loose, semi compact and compact.

**Number of awns ( ch 44)** : Absence/number of awns per floret was recorded.

**Awn characters (ch 45)** : Recorded as weak, semi strong and strong

**Awn nature (ch 46)** : Recorded as straight or twisted.

**Awn colour (ch 47)** : Classified as yellow, brown or black.

**Lemma hairiness (ch 48)** : presence or absence of hairs on lemma was recorded.

**Basal hairiness (ch 49)** : Presence or absence of hairs at the base of the floret was recorded.

**Lemma colour (ch 50)** : Classified as light yellow (LY), creamish yellow(Cy), brown (Br), black (Bl).

**Spikelet separation (ch 51)** : Recorded as fracture (F), Abscission (Ab), Semi-abscission (SA).

**Seed plumpness (ch 52)** : Classified as narrow (N), Medium (M), semi-plump (Sp), plump (P).

**Leaf blight disease incidence (ch 53)** : Incidence of leaf blight disease was recorded in 0-5 scale.

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	IC/ Ec no.	Source	ch1	ch2	ch3	ch4	ch5	ch6	ch7	ch8	ch9
1	PI 486164		USA	92	123	112	4.6	36.8	1.85	18.80	9.5	0.78
2	PI 497696	EC 209329	USA	96	131	112	4.3	36.1	1.61	19.30	8.3	0.71
3	PI 497880	EC 209317	USA	126	142	117	5.9	48.2	2.32	9.30	10.8	0.73
4	PI 497799	EC 209305	USA	117	133	128	6.2	51.3	2.89	11.80	10.5	0.84
5	PI 497790	EC 209402	USA	117	132	125	5.3	52.2	2.82	15.30	7.3	0.89
6	PI 497874	EC 209707	USA	99	131	106	5.3	38.3	2.60	14.20	11.7	0.91
7	PI 497725	EC 209196	USA	100	134	118	4.9	36.9	1.53	16.90	7.9	0.57
8	PI 466869	EC 209289	USA	97	125	113	4.9	38.3	1.89	16.80	9.5	0.77
9	PI 497724	EC 209221	USA	111	127	138	4.9	55.8	2.10	19.70	5.1	0.71
10	PI 497778	EC 209452	USA	100	128	127	5.6	42.3	2.25	15.20	9.5	0.80
11	PI 497777	EC 209634	USA	104	134	107	4.6	32.8	1.71	15.40	7.0	0.64
12	PI 497708	EC 209398	USA	98	127	139	3.9	50.5	2.00	23.10	7.3	0.66
13	PI 497821	EC 209271	USA	97	128	141	5.3	47.4	2.32	24.30	9.2	0.80
14	PI 498912		USA	98	128	115	4.6	42.1	1.93	21.50	6.7	0.70
15	PI 497860	EC 209461	USA	94	123	108	5.3	43.2	2.46	17.60	15.5	0.91
16	PI 497736	EC 209399	USA	122	144	105	5.3	48.3	2.18	10.20	7.6	0.63
17	PI 476810	EC 209410	USA	126	145	89	3.9	35.0	1.43	17.10	7.0	1.39
18	PI 497809	EC 209403	USA	113	136	120	5.6	39.8	2.10	15.90	9.2	2.05
19	PI 497703	EC 209282	USA	113	143	132	5.9	41.6	2.71	13.70	6.3	2.65
20	PI 471907	EC 209440	USA	102	143	138	5.3	44.7	2.32	25.10	7.9	0.77
21	PI 497912	EC 209722	USA	122	140	139	6.6	48.9	1.75	11.70	9.2	1.71
22	PI 497648		USA	104	141	123	4.9	46.7	2.60	19.30	15.5	0.89
23	PI 497706	EC 209544	USA	103	132	139	4.6	50.7	2.18	25.40	9.5	0.98
24	PI 486862		USA	111	132	105	4.6	35.6	1.93	17.30	9.8	0.64
25	PI 486863		USA	122	140	112	5.6	42.7	1.75	10.60	10.2	0.57
26	PI 497818	EC 209638	USA	90	125	103	4.3	27.1	1.35	33.40	11.0	0.47
27	PI 497726	EC 209198	USA	97	125	120	4.3	36.7	1.88	34.10	5.8	0.54
28	PI 497858	EC 209674	USA	94	128	110	5.3	32.1	1.32	18.40	12.0	0.47
29	PI 497730	EC 209629	USA	95	140	125	5.9	55.2	2.08	15.80	5.5	0.54
30	PI 466896	EC 209314	USA	99	128	109	5.3	38.8	1.58	24.50	5.5	0.47
31	PI 497806		USA	99	130	126	5.3	38.2	2.24	30.10	10.7	0.54
32	PI 497155		USA	102	130	124	5.3	44.2	1.61	24.60	7.2	0.63
33	PI 466870	EC 209291	USA	101	130	126	5.6	45.7	1.84	18.00	9.3	0.58
34	PI 497686	EC 209568	USA	100	128	132	5.3	45.4	1.98	22.10	12.0	0.58
35	PI 486134	EC 209341	USA	124	148	129	4.9	49.3	1.84	17.10	15.5	0.60

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S.No.	Acc.no.	IC/ Ec no.	Source	ch1	ch2	ch3	ch4	ch5	ch6	ch7	ch8	ch9
36	PI 466865	EC 209349	USA	121	146	76	4.3	27.3	1.68	19.90	10.0	0.55
37	PI 497695	EC 209273	USA	101	131	111	4.9	48.3	1.84	19.30	5.5	0.50
38	PI 497697	EC 209272	USA	100	130	100	3.9	34.9	1.81	24.00	14.8	0.47
39	PI 466868	EC 209350	USA	114	136	91	6.6	33.5	2.01	12.30	14.1	0.50
40	PI 497752	EC 209333	USA	98	129	93	6.6	38.0	1.58	11.10	14.4	0.51
41	PI 466889	EC 209311	USA	112	136	114	6.6	38.4	1.91	13.40	19.6	0.47
42	PI 497709	EC 209296	USA	101	131	145	6.2	50.8	2.90	23.20	14.4	0.93
43	PI 497694	EC 209215	USA	102	131	123	5.3	39.3	1.68	25.70	10.7	0.52
44	PI 469106	EC 209566	USA	106	134	108	5.6	40.1	1.55	17.40	11.7	0.44
45	PI 466892		USA	121	148	173	5.6	44.2	2.04	40.20	5.8	0.82
46	PI 466888	EC 209565	USA	124	149	115	4.9	35.2	1.55	21.80	7.9	0.52
47	PI 497807	EC 209285	USA	103	132	155	5.9	59.2	2.01	23.70	5.2	0.73
48	PI 497827	EC 209527	USA	94	125	115	5.9	37.1	1.61	18.20	14.4	0.61
49	PI 466871	EC 209277	USA	101	132	140	5.6	47.3	2.17	21.00	12.4	0.70
50	PI 466867	EC 209346	USA	102	134	124	5.3	41.9	1.71	21.60	7.6	0.54
51	PI 477687		USA	97	138	99	4.6	34.8	1.50	15.40	6.9	0.60
52	PI 431206		USA	99	139	106	5.2	42.9	2.37	11.20	7.5	0.62
53	PI 497905	EC 209260	USA	101	140	97	4.6	32.8	1.59	16.10	10.1	0.51
54	PI 497762	EC 209213	USA	95	135	109	4.4	39.9	1.41	19.30	6.9	0.53
55	PI 497820	EC 209724	USA	115	159	128	4.9	48.1	1.50	15.60	8.3	0.60
56	CI 9216	EC 209468	USA	125	161	97	5.5	41.3	1.50	10.30	11.2	0.49
57	CI 9372		USA	101	142	111	4.6	40.8	2.07	26.60	9.3	0.60
58	CI 7912	EC 209585	USA	100	163	69	4.1	27.1	1.77	17.10	5.3	0.67
59	CI 9400	EC 209472	USA	107	146	103	4.9	34.7	2.07	18.20	9.6	0.65
60	CI 9342	EC 209416	USA	115	146	102	4.9	40.1	1.83	19.20	9.6	0.63
61	CI 9261	EC 209455	USA	90	135	90	4.4	32.3	1.50	26.80	9.6	0.53
62	CI 9365	EC 209750	USA	109	153	104	5.5	41.1	2.16	16.50	4.3	0.58
63	CI 9136	EC 209710	USA	120	159	93	4.9	40.6	1.47	14.20	10.9	0.41
64	CI 8311	EC 209526	USA	96	136	92	5.2	37.7	1.59	14.80	11.7	0.56
65	CI 9386	EC 209586	USA	106	144	98	4.9	29.8	1.77	18.30	8.0	0.62
66	CI 9220	EC 209679	USA	100	139	112	4.9	42.6	1.77	15.20	6.9	0.53
67	CI 9771		USA	122	159	106	4.9	41.5	1.98	14.70	10.7	0.62
68	CI 9406	EC 209690	USA	100	139	106	4.4	40.3	1.59	17.40	7.5	0.51
69	CI 9238	EC 209792	USA	95	133	90	4.4	33.1	1.41	16.00	5.6	0.55
70	CI 9368	EC 209742	USA	90	135	103	4.6	37.4	1.65	23.40	9.6	0.67

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S.No.	Acc.no.	IC/ Ec no.	Source	ch1	ch2	ch3	ch4	ch5	ch6	ch7	ch8	ch9
71	CI 5275		USA	90	140	88	4.4	33.3	1.68	24.10	6.9	0.56
72	CI 9810		USA	103	146	108	4.6	39.4	1.53	20.30	8.5	0.51
73	CI 8916		USA	102	146	104	4.6	40.2	2.58	16.10	10.1	0.72
74	CI 9166	EC 209584	USA	96	138	103	5.2	37.3	1.41	18.80	6.9	0.45
75	CI 8449	EC 209652	USA	109	138	123	4.8	55.5	2.32	23.40	8.9	0.80
76	CI 9322		USA	96	130	103	5.1	40.3	1.75	22.60	8.0	0.59
77	CI 9333	EC 209646	USA	115	150	96	4.5	36.7	1.48	23.30	20.3	0.48
78	CI 9344	EC 209307	USA	97	131	107	4.8	42.7	1.75	21.20	22.9	0.66
79	CI 8349	EC 209547	USA	106	132	89	4.5	31.0	1.58	19.30	22.9	0.51
80	CI 9355	EC 209757	USA	115	138	96	4.8	37.5	1.61	19.10	21.2	0.45
81	CI 9308	EC 209579	USA	94	127	114	4.8	49.7	2.04	29.90	18.6	0.93
82	CI 8183	EC 209695	USA	117	142	88	4.5	39.8	1.45	17.40	8.0	0.51
83	CI 9209	EC 209689	USA	117	142	105	5.4	45.7	1.75	15.60	13.5	0.58
84	CI 9260	EC 209504	USA	94	131	98	4.8	36.6	1.61	22.40	16.5	0.54
85	CI 9306		USA	108	133	86	4.2	33.3	1.61	22.10	13.1	0.50
86	CI 4836		USA	84	120	85	3.9	35.1	1.71	23.60	6.8	0.77
87	CI 9136-1	EC 209710	USA	102	131	120	4.8	41.6	2.31	28.40	8.5	0.77
88	CI 8113		USA	93	127	89	3.9	31.2	1.65	26.90	18.6	0.70
89	CI 9310	EC 209785	USA	124	150	114	5.7	44.0	1.98	17.60	16.1	0.69
90	CI 8319	EC 209641	USA	109	136	104	4.5	36.1	1.71	24.70	18.2	0.58
91	CI 8313	EC 209524	USA	107	132	101	5.1	37.4	1.52	24.00	16.1	0.51
92	CI 9367	EC 209436	USA	95	128	101	4.5	32.5	1.55	25.10	14.4	0.62
93	CI 9327	EC 209502	USA	99	131	110	4.8	37.9	1.71	21.80	15.2	0.58
94	CI 9329	EC 209661	USA	117	146	122	4.8	45.3	1.81	20.30	11.4	0.64
95	CI 4913		USA	107	135	99	4.5	31.2	2.14	23.00	9.7	0.67
96	CI 9330		USA	107	135	91	4.8	37.2	1.68	21.00	8.9	0.64
97	CI 9358	EC 209728	USA	106	135	109	4.8	44.2	2.57	25.60	9.7	0.82
98	CI 9340	EC 209644	USA	113	138	100	5.1	42.3	1.84	17.60	13.5	0.61
99	CI 9356	EC 209685	USA	126	150	102	5.7	43.0	1.58	22.10	22.0	0.51
100	CI 9268	EC 209576	USA	103	136	97	5.6	33.5	1.88	14.20	8.9	0.57
101	CI 9469		USA	110	142	130	6.7	37.5	1.62	15.20	20.5	0.52
102	CI 9198	EC 209675	USA	110	144	101	4.2	32.2	1.81	15.40	20.1	0.59
103	CI 9303	EC 209616	USA	110	144	117	6.0	36.8	2.25	13.10	17.5	0.70
104	CI 9239	EC 209615	USA	110	144	125	5.6	47.7	2.62	13.30	10.9	0.85
105	CI 9263	EC 209493	USA	90	139	109	5.3	35.5	1.95	21.80	12.2	0.82

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	IC/ Ec no.	Source	ch1	ch2	ch3	ch4	ch5	ch6	ch7	ch8	ch9
106	CI 9265		USA	120	154	111	7.4	41.9	2.43	9.40	8.9	0.68
107	CI 7624	EC 209684	USA	118	154	105	5.6	38.7	2.10	14.40	13.9	0.75
108	CI 9357	EC 209488	USA	114	146	105	5.3	33.8	2.32	16.40	11.6	0.71
109	CI 9354	EC 209486	USA	99	136	89	3.2	30.7	1.55	17.90	9.2	0.56
110	CI 9316	EC 209408	USA	97	136	116	4.2	31.2	1.81	23.90	12.2	0.63
111	CI 9328	EC 209660	USA	98	157	93	7.4	30.3	1.77	13.40	17.5	0.70
112	CI 9386-1	EC 209586	USA	103	134	95	6.0	29.4	2.14	12.60	12.9	0.73
113	CI 8450	EC 209551	USA	104	134	107	6.0	37.3	2.14	12.50	14.9	0.68
114	CI 9259	EC 209575	USA	116	143	109	5.6	39.3	2.06	12.70	12.2	0.82
115	CI 9403	EC 209469	USA	114	143	111	6.0	42.9	2.06	12.00	8.6	0.70
116	CI 8315	EC 209406	USA	118	145	115	5.6	44.9	2.25	11.70	10.9	0.77
117	CI 9376	EC 209727	USA	126	155	111	6.0	43.4	2.14	12.70	20.1	0.78
118	CI 8850		USA	107	135	128	4.9	46.7	1.66	17.20	13.2	0.75
119	CI 9416	EC 209429	USA	108	140	101	5.3	33.0	1.62	15.60	18.8	0.56
120	CI 9411	EC 209780	USA	116	145	120	4.9	52.3	2.25	13.60	10.9	0.80
121	CI 9375	EC 209494	USA	103	136	111	5.6	34.3	2.39	17.20	14.5	0.82
122	CI 9413	EC 209758	USA	102	140	124	6.7	42.0	2.62	15.60	14.2	0.89
123	CI 9371	EC 209492	USA	101	140	104	3.9	42.2	2.06	20.40	15.2	0.63
124	CI 9422	EC 209301	USA	110	140	130	5.3	50.7	2.28	17.40	15.2	0.82
125	CI 9345	EC 209308	USA	98	122	96	4.8	35.5	1.57	13.70	14.2	0.59
126	CI 9397	EC 209601	USA	95	125	86	4.1	31.0	1.47	18.00	8.4	0.65
127	CI 9623		USA	105	126	92	5.4	33.7	1.67	10.40	7.5	0.61
128	CI 9387	EC 209672	USA	118	145	99	5.1	33.7	1.97	18.80	5.4	0.72
129	CI 9315	EC 209342	USA	116	145	92	4.8	32.5	1.60	15.40	9.0	0.54
130	CI 9377	EC 209428	USA	123	154	78	4.5	31.5	1.53	13.30	8.6	0.50
131	CI 9400-1	EC 209472	USA	131	151	98	8.0	34.1	2.00	9.80	13.9	0.64
132	CI 9343	EC 209263	USA	120	143	92	5.1	34.2	1.63	15.50	6.9	0.54
133	CI 9330-1		USA	106	134	78	5.4	31.7	1.90	9.90	11.2	0.72
134	CI 9370	EC 209491	USA	120	141	87	5.1	36.8	1.63	13.10	8.8	0.51
135	CI 9350	EC 209394	USA	120	141	106	7.0	38.9	2.27	10.80	7.1	0.68
136	CI 9422-1	EC 209301	USA	112	131	105	5.1	37.4	2.00	18.00	3.4	0.58
137	BGP 48	EC 246159	Brazil	105	133	90	4.5	30.2	1.90	15.80	8.1	0.64
138	BGP 33	EC 246144	Brazil	95	122	103	5.7	36.8	2.23	19.50	7.1	0.82
139	BGP 37	EC 246148	Brazil	98	125	81	4.5	31.2	1.87	18.90	6.4	0.67
140	BGP 36	EC 246147	Brazil	109	137	104	4.8	39.3	2.57	17.60	5.1	0.82

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	IC/ Ec no.	Source	ch1	ch2	ch3	ch4	ch5	ch6	ch7	ch8	ch9
141	BGP 13	EC 246124	Brazil	98	122	68	4.8	30.7	1.97	12.60	4.1	0.67
142	BGP 4	EC 246115	Brazil	98	125	95	4.5	41.9	2.17	17.90	6.4	0.78
143	BGP 59	EC 246170	Brazil	95	122	96	5.4	39.9	2.53	21.70	6.9	1.00
144	BGP 64	EC 246175	Brazil	96	122	98	4.8	31.7	1.93	19.50	7.3	0.73
145	BGP 96	EC 246207	Brazil	105	131	76	3.8	29.4	2.07	20.10	6.4	0.68
146	BGP 42	EC 246153	Brazil	109	136	89	5.4	31.6	2.00	17.50	7.7	0.61
147	BGP 41	EC 246152	Brazil	98	125	94	4.5	37.5	2.17	18.80	5.8	0.79
148	BGP 38	EC 246149	Brazil	93	125	97	5.4	33.8	1.73	20.10	6.0	0.65
149	BGP 12	EC 246123	Brazil	91	125	125	5.1	42.2	1.83	23.70	6.2	0.79
150	BGP 9	EC 246120	Brazil	106	144	103	3.6	37.0	2.41	22.90	5.2	0.75
151	BGP 75	EC 246186	Brazil	117	140	108	5.4	41.1	1.71	11.30	10.7	0.60
152	BGP 71	EC 246182	Brazil	102	129	91	3.9	31.4	1.78	19.60	8.8	0.51
153	BGP 63	EC 246174	Brazil	95	128	102	3.3	35.8	1.88	19.40	8.5	0.64
154	BGP 87	EC 246198	Brazil	86	123	95	4.8	32.5	1.71	11.50	7.7	0.51
155	BGP 58	EC 246169	Brazil	101	129	119	4.2	47.5	2.82	19.40	11.0	0.82
156	BGP 95	EC 246206	Brazil	106	135	105	3.9	34.0	1.94	19.70	9.9	0.66
157	BGP 35	EC 246146	Brazil	96	128	102	3.9	36.5	2.11	21.40	5.5	0.66
158	BGP 94	EC 246205	Brazil	101	129	110	3.9	32.2	2.15	21.10	6.6	0.69
159	BGP 10	EC 246121	Brazil	94	125	79	3.6	22.2	1.41	22.30	8.8	0.48
160	BGP 40	EC 246151	Brazil	99	134	111	4.8	38.9	2.11	22.40	10.2	0.58
161	BGP 39	EC 246150	Brazil	106	134	99	4.5	33.1	2.11	14.80	7.2	0.63
162	BGP 44	EC 246155	Brazil	102	134	97	4.5	35.0	2.21	17.40	9.4	0.72
163	BGP 68	EC 246179	Brazil	106	141	110	3.6	38.6	2.48	20.50	6.3	0.85
164	BGP 65	EC 246176	Brazil	93	125	110	4.5	36.6	2.15	23.70	12.1	1.05
165	BGP 79	EC 246190	Brazil	94	126	97	3.6	29.1	2.08	25.00	6.9	0.78
166	BGP 34	EC 246145	Brazil	96	126	131	6.0	33.4	2.01	17.40	5.0	0.60
167	BGP 23	EC 246134	Brazil	93	126	119	3.6	41.3	2.21	24.20	7.2	0.84
168	BGP 55	EC 246166	Brazil	108	144	102	4.5	37.7	2.25	17.40	8.0	0.64
169	BGP 20	EC 246131	Brazil	106	135	118	5.1	40.3	2.38	17.50	5.0	0.70
170	BGP 91	EC 246202	Brazil	94	134	106	3.6	36.3	1.88	21.20	8.8	0.66
171	BGP 21	EC 246132	Brazil	117	154	126	6.0	49.3	2.95	11.60	8.3	0.81
172	BGP 1	EC 246112	Brazil	106	142	132	4.8	43.6	1.94	21.80	3.6	0.63
173	BGP 60	EC 246171	Brazil	105	142	120	3.9	39.0	2.28	22.50	8.3	0.78
174	BGP 51	EC 246162	Brazil	93	130	97	3.9	29.0	1.78	23.10	8.3	0.67
175	BGP 66	EC 246177	Brazil	84	124	124	5.2	43.5	1.40	23.10	9.6	0.69

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	IC/ Ec no.	Source	ch1	ch2	ch3	ch4	ch5	ch6	ch7	ch8	ch9
176	BGP 85	EC 246196	Brazil	83	124	105	4.0	35.9	1.22	25.80	13.0	0.58
177	BGP 62	EC 246173	Brazil	85	120	100	4.3	32.8	1.32	25.20	8.7	0.67
178	BGP 50	EC 246161	Brazil	89	123	113	4.3	38.4	1.40	24.00	9.6	0.67
179	BGP 82	EC 246193	Brazil	88	127	113	4.9	35.1	1.56	21.50	11.3	0.67
180	BGP 69	EC 246180	Brazil	88	127	98	4.0	34.7	1.72	20.30	16.5	0.73
181	BGP 86	EC 246197	Brazil	91	130	84	3.4	28.6	1.77	21.30	16.1	0.67
182	BGP 88	EC 246199	Brazil	105	137	103	5.2	44.7	1.80	13.50	10.0	0.84
183	BGP 17	EC 246128	Brazil	85	122	96	4.0	30.4	1.72	20.00	7.8	0.72
184	BGP 92	EC 246203	Brazil	81	122	95	3.7	30.1	1.11	18.80	14.3	0.64
185	BGP 73	EC 246184	Brazil	84	123	96	3.7	33.0	1.58	23.20	7.4	0.64
186	BGO 11	EC 246122	Brazil	84	123	97	4.0	32.9	1.48	19.80	10.0	0.69
187	BGP 70	EC 246181	Brazil	103	133	90	4.3	39.7	1.61	17.00	10.9	0.58
188	BGP 74	EC 246185	Brazil	84	124	74	3.7	27.0	1.51	19.80	9.1	0.69
189	BGP 15	EC 246126	Brazil	83	122	84	4.3	28.6	1.51	20.50	13.5	0.72
190	BGP 3	EC 246114	Brazil	88	122	102	4.6	33.4	1.69	21.70	10.0	0.66
191	BGP 19	EC 246130	Brazil	91	127	105	4.6	34.7	1.98	20.90	11.3	0.66
192	BGP 16	EC 246127	Brazil	85	122	85	4.9	25.5	1.35	17.40	7.0	0.60
193	BGP 67	EC 246178	Brazil	93	123	100	4.6	40.5	1.82	18.60	8.3	0.76
194	BGP 98	EC 246209	Brazil	83	122	89	4.3	29.7	1.43	21.80	9.6	0.61
195	BGP 47	EC 246158	Brazil	105	141	97	4.9	41.3	1.51	14.80	18.3	0.63
196	BGP 83	EC 246194	Brazil	90	130	102	3.7	32.8	1.82	22.00	12.6	0.75
197	BGP 97	EC 246208	Brazil	112	143	94	4.0	39.3	1.43	14.90	16.5	0.60
198	BGP 93	EC 246204	Brazil	96	139	94	4.3	31.9	1.77	18.10	24.3	0.66
199	BGP 46	EC 246157	Brazil	97	139	100	4.3	34.4	1.64	19.30	9.1	0.63
200	BGP 14	EC 246125	Brazil	90	130	142	4.9	47.5	1.53	25.80	9.3	0.69
201	BGP 18	EC 246129	Brazil	91	130	110	4.6	39.0	1.71	23.30	8.4	0.65
202	BGP 76	EC 246187	Brazil	87	128	98	4.2	35.5	1.62	24.90	11.0	0.69
203	BGP 89	EC 246200	Brazil	105	129	119	6.7	38.0	1.87	18.70	7.2	0.63
204	BGP 81	EC 246192	Brazil	87	130	103	4.6	37.3	1.62	26.00	8.4	0.74
205	BGP 61	EC 246172	Brazil	96	135	112	4.2	42.3	2.08	25.90	11.9	0.86
206	PA 2672	IC 372501	GBPUAT, Pantnagar	90	128	120	4.9	39.6	1.53	23.20	10.1	0.69
207	PA 2857	IC 372517	GBPUAT, Pantnagar	76	128	94	5.3	30.7	1.50	18.20	6.1	0.65
208	PA 3562	IC 372519	GBPUAT, Pantnagar	79	128	85	4.9	33.5	1.47	16.60	4.6	0.65
209	PA 3498	IC 372518	GBPUAT, Pantnagar	87	143	130	5.6	43.9	1.59	22.30	12.2	0.67
210	PA 2673		GBPUAT, Pantnagar	78	127	84	4.6	31.5	1.41	16.30	7.8	0.72



## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	IC/ Ec no.	Source	ch1	ch2	ch3	ch4	ch5	ch6	ch7	ch8	ch9
211	PA 2840		GBPUAT, Pantnagar111	143	138	6.0	53.9	1.81	14.60	5.2	0.87	
212	PA 3579	IC 372521	GBPUAT, Pantnagar 95	128	104	4.6	32.8	1.74	26.40	10.7	0.62	
213	PA 2838	IC 372515	GBPUAT, Pantnagar123	155	99	4.9	39.8	1.29	20.30	7.8	0.58	
214	PA 2828		GBPUAT, Pantnagar 89	128	147	4.6	50.6	1.53	31.20	11.6	0.81	
215	PA 2822		GBPUAT, Pantnagar108	138	120	5.6	38.6	1.56	19.00	12.5	0.72	
216	PA 2685	IC 372504	GBPUAT, Pantnagar 80	124	102	4.9	35.8	1.25	18.50	11.9	0.65	
217	PA 2662	IC 372499	GBPUAT, Pantnagar 90	124	113	4.6	39.1	1.47	22.60	7.5	0.67	
218	PA 2854		GBPUAT, Pantnagar 99	132	108	5.3	39.4	1.74	18.80	12.5	0.65	
219	PA 2673-1		GBPUAT, Pantnagar 90	127	100	5.3	36.4	1.25	18.60	9.0	0.43	
220	PA 2699	IC 372505	GBPUAT, Pantnagar 74	124	97	4.6	34.0	1.44	23.20	6.4	0.69	
221	PA 2704	IC 372506	GBPUAT, Pantnagar 95	130	134	5.3	39.0	1.90	29.20	5.2	0.62	
222	PA 2682	IC 372503	GBPUAT, Pantnagar 90	127	127	6.3	40.3	1.74	21.40	7.8	0.72	
223	PA 2668	IC 372500	GBPUAT, Pantnagar 90	127	96	3.5	33.0	1.32	24.70	9.6	0.69	
224	PA 2829		GBPUAT, Pantnagar 99	129	104	5.3	55.5	2.17	13.60	5.2	0.93	
225	PA 2826		GBPUAT, Pantnagar 95	127	113	5.3	36.7	1.81	24.70	7.2	0.79	
226	PA 2823	IC 372512	GBPUAT, Pantnagar 97	134	87	5.1	27.3	1.91	14.60	4.5	0.75	
227	PA 2849		GBPUAT, Pantnagar 97	134	107	4.8	32.9	1.61	18.80	7.8	0.63	
228	PA 2878		GBPUAT, Pantnagar131	157	83	4.8	26.5	1.71	16.10	5.8	0.63	
229	PA 2853		GBPUAT, Pantnagar119	147	100	4.1	48.9	2.01	18.10	8.4	0.77	
230	PA 2802	IC 372509	GBPUAT, Pantnagar 83	131	82	4.8	27.5	1.88	17.30	13.6	0.67	
231	PA 2803	IC 372510	GBPUAT, Pantnagar 84	131	84	4.1	35.9	1.48	20.90	11.7	0.63	
232	PA 2809	IC 372511	GBPUAT, Pantnagar 97	135	119	5.4	42.5	2.17	20.10	6.8	0.82	
233	PA 2714	IC 372507	GBPUAT, Pantnagar 92	126	93	4.1	31.3	1.48	20.30	12.0	0.55	
234	PA 2780	IC 372508	GBPUAT, Pantnagar 86	131	73	3.8	25.7	1.78	12.40	9.7	0.60	
235	PA 2832		GBPUAT, Pantnagar105	131	120	4.5	43.9	2.31	20.10	12.9	0.82	
236	PA 2821		GBPUAT, Pantnagar111	137	121	4.8	43.0	1.91	17.10	12.3	0.65	
237	PA 2829-1		GBPUAT, Pantnagar114	137	110	5.1	40.9	1.71	13.90	12.0	0.67	
238	PA 2823-1	IC 372512-1	GBPUAT, Pantnagar114	137	117	4.5	46.6	1.81	15.20	12.6	0.70	
239	PA 2824		GBPUAT, Pantnagar111	135	119	4.5	41.3	2.14	20.20	20.1	0.80	
240	PA 2812		GBPUAT, Pantnagar104	149	112	4.8	37.3	2.24	17.00	13.9	0.65	
241	PA 2828-1		GBPUAT, Pantnagar 84	132	88	4.1	30.6	1.61	17.40	10.4	0.60	
242	PA 2827	IC 372513	GBPUAT, Pantnagar102	141	109	4.8	34.9	2.24	17.50	11.3	0.82	
243	PA 2674	IC 372502	GBPUAT, Pantnagar 86	132	78	4.8	28.0	1.45	12.60	16.2	0.57	
244	PA 2830	IC 372514	GBPUAT, Pantnagar 86	130	75	4.5	30.0	1.55	16.30	11.3	0.57	
245	PA 2877		GBPUAT, Pantnagar105	130	117	5.7	36.2	2.08	17.60	15.9	0.67	

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	IC/ Ec no.	Source	ch1	ch2	ch3	ch4	ch5	ch6	ch7	ch8	ch9
246	PA 2807		GBPUAT, Pantnagar	86	130	85	5.1	29.7	1.94	13.70	9.1	0.67
247	PA 2885		GBPUAT, Pantnagar	108	132	110	5.4	41.3	2.37	14.40	5.8	0.77
248	EC 79873	EC 79873		93	126	126	5.4	35.7	1.78	22.50	11.3	0.60
249	EC 108656	EC 108656		122	149	110	5.7	44.0	1.81	12.20	11.7	0.50
250	EC 61704	EC 61704		95	129	121	4.1	39.1	1.52	23.10	8.4	0.63
251	EC 57332	EC 57332		105	135	83	4.8	32.0	1.89	17.50	11.3	0.70
252	EC 107892	EC 107892		97	130	121	5.4	44.1	1.72	22.00	10.9	0.80
253	EC 130643	EC 130643		102	130	87	5.1	32.4	1.96	17.30	4.4	0.72
254	EC 57662	EC 57662		104	135	110	5.1	42.1	1.89	23.20	6.4	0.89
255	EC 108439	EC 108439		96	127	98	4.4	35.5	1.65	22.70	8.5	0.81
256	EC 16929	EC 16929		97	127	100	4.4	38.2	1.68	25.20	7.7	0.72
257	EC 107534	EC 107534		98	128	103	5.1	37.1	1.89	21.00	6.4	0.74
258	EC 102331	EC 102331		95	128	94	4.1	27.7	1.79	20.90	14.1	0.80
259	EC 108456	EC 108456		107	136	112	6.1	40.4	2.06	15.90	7.3	0.74
260	EC 97525	EC 97525		102	133	100	4.8	35.1	2.03	21.40	7.3	0.87
261	EC 31058	EC 31058		105	135	97	4.4	38.7	1.75	18.60	8.1	0.78
262	EC 107021	EC 107021		102	133	111	5.4	40.4	1.96	21.80	4.0	0.83
263	EC 35151	EC 35151		94	130	101	4.4	40.7	2.03	22.80	5.6	0.91
264	EC 35216	EC 35216		86	124	99	5.4	34.0	1.48	15.30	3.6	0.74
265	EC 96583	EC 96583		96	127	109	4.4	41.8	1.79	23.20	5.6	0.87
266	EC 97537	EC 97537		97	124	111	4.1	47.2	1.79	22.80	8.5	0.81
267	EC 52807	EC 52807		96	130	106	4.4	40.3	1.65	24.20	6.0	0.81
268	EC 10483	EC 10483		104	134	111	5.1	43.2	1.89	21.70	6.0	0.91
269	EC 34576	EC 34576		93	130	113	4.8	46.0	1.96	23.50	10.5	0.98
270	EC 196071	EC 196071		103	135	98	4.8	33.2	1.92	18.30	6.4	0.69
271	EC 43555	EC 43555		96	130	106	4.4	38.8	1.79	22.20	8.5	0.81
272	EC 35753	EC 35753		102	128	112	5.8	41.2	1.89	24.40	7.3	0.87
273	EC 107624	EC 107624		95	127	88	4.1	30.9	1.79	18.70	5.2	0.59
274	EC 104492	EC 104492		96	127	109	4.4	47.0	1.75	22.80	6.8	0.93
275	EC 86444	EC 86444		97	128	111	4.8	46.3	1.72	22.50	5.6	0.83
276	EC 97248	EC 97248		93	131	96	4.8	37.4	1.50	26.90	5.1	0.54
277	EC 102011	EC 102011		94	126	99	5.1	38.5	1.60	21.70	5.1	0.69
278	EC 102353	EC 102353		91	131	96	3.7	30.2	1.53	22.10	5.7	0.58
279	EC 16931	EC 16931		96	131	112	4.8	39.0	1.63	23.60	5.7	0.66
280	EC 54837	EC 54837		94	134	101	4.1	30.6	1.37	21.80	8.3	0.58

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	IC/ Ec no.	Source	ch1	ch2	ch3	ch4	ch5	ch6	ch7	ch8	ch9
281	EC 108437	EC 108437		94	131	119	4.1	42.7	1.53	28.50	8.9	0.70
282	EC 57651	EC 57651		84	128	103	4.4	34.6	1.67	16.80	7.0	0.61
283	EC 178960	EC 178960		95	128	108	4.1	43.0	1.70	27.30	5.1	0.66
284	EC 104006	EC 104006		92	132	112	4.8	44.3	1.73	26.10	7.0	0.69
285	EC 102643	EC 102643		84	126	74	4.4	27.9	1.37	12.10	5.1	0.61
286	EC 10448	EC 10448		100	135	118	5.1	37.4	1.82	24.40	4.8	0.74
287	EC 97520	EC 97520		94	132	119	4.8	47.5	1.80	25.60	5.7	0.72
288	EC 82355	EC 82355		115	137	117	5.8	42.1	1.90	17.10	7.0	0.67
289	EC 96576	EC 96576		99	138	118	5.4	45.3	1.97	27.20	4.8	0.78
290	EC 107324	EC 107324		109	134	115	4.4	49.7	2.23	16.30	7.9	0.70
291	EC 466859	EC 466859		95	131	88	3.4	28.8	1.53	22.00	6.7	0.54
292	EC 130748	EC 130748		81	126	75	4.1	29.1	1.33	15.20	7.6	0.48
293	EC 107221	EC 107221		93	129	90	5.1	39.1	1.43	14.40	4.1	0.54
294	EC 109221	EC 109221		93	131	92	3.1	28.5	1.23	22.00	7.3	0.38
295	EC 102348	EC 102348		93	131	98	3.7	30.8	1.63	21.30	8.6	0.56
296	EC 108586	EC 108586		104	144	118	4.8	43.2	1.80	20.70	5.7	0.61
297	EC 133510	EC 133510		91	126	76	4.4	35.7	1.57	15.10	11.4	0.61
298	EC 100758	EC 100758		91	131	111	5.1	39.8	1.60	22.60	5.1	0.69
299	EC 57661	EC 57661		100	139	119	4.8	50.0	1.90	24.10	5.4	0.61
300	EC 131050	EC 131050		93	128	113	4.8	41.5	1.63	25.00	7.0	0.62
301	EC 107541	EC 107541		91	130	100	3.9	32.7	1.64	26.10	8.6	0.56
302	EC 54836	EC 54836		92	133	113	4.3	34.4	1.85	24.50	8.3	0.62
303	EC 108124	EC 108124		99	139	125	5.5	43.7	2.00	27.80	6.0	0.75
304	EC 29049	EC 29049		89	136	134	5.1	44.7	2.03	27.30	7.9	0.75
305	EC 16695	EC 16695		93	136	116	7.1	37.2	2.32	16.60	9.0	0.66
306	EC 178960-1	EC 178960		93	127	140	6.7	48.6	1.71	24.20	4.9	0.77
307	EC 58531	EC 58531		80	125	80	5.5	30.7	1.75	14.60	8.3	0.54
308	EC 9884	EC 9884		93	130	110	4.3	38.4	1.64	28.60	6.8	0.70
309	EC 9269	EC 9269		92	132	109	5.5	36.0	1.68	25.80	11.3	0.62
310	EC 15969	EC 15969		80	127	77	6.3	26.8	1.61	12.20	7.1	0.54
311	EC 16967	EC 16967		93	131	102	5.1	36.6	1.75	24.70	9.0	0.69
312	EC 9970	EC 9970		98	136	116	5.1	36.3	2.14	20.50	7.1	0.66
313	EC 86444-1	EC 86444		91	136	123	5.1	35.2	1.53	27.20	10.1	0.54
314	EC 107022	EC 107022		91	136	110	5.9	33.8	1.78	25.10	10.9	0.64
315	EC 4438	EC 4438		89	137	124	5.5	40.5	1.68	28.80	10.5	0.58

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	IC/ Ec no.	Source	ch1	ch2	ch3	ch4	ch5	ch6	ch7	ch8	ch9
316	EC 28815	EC 28815		94	133	109	5.9	33.6	2.00	23.80	9.4	0.64
317	EC 310507	EC 310507		92	136	118	5.1	35.1	1.68	27.70	7.5	0.69
318	EC 28804	EC 28804		92	136	128	5.9	42.8	1.93	23.60	7.1	0.82
319	EC 104472	EC 104472		98	136	129	5.9	49.4	2.07	26.90	9.8	0.70
320	EC 70924	EC 70924		92	130	119	5.9	36.6	1.75	25.60	5.6	0.58
321	EC 4721	EC 4721		93	132	114	4.3	38.5	1.43	25.80	9.0	0.56
322	EC 96548	EC 96548		116	148	137	8.3	44.4	2.46	12.50	8.6	0.66
323	EC 108602	EC 108602		93	130	98	5.1	32.1	1.53	19.80	6.8	0.54
324	EC 130646	EC 130646		97	136	97	5.5	33.1	2.07	19.20	6.8	0.72
325	EC 108648	EC 108648		92	130	113	5.5	36.6	1.78	23.30	9.4	0.70
326	EC 159606	EC 159606		83	122	69	4.1	31.4	1.37	16.10	6.7	0.57
327	EC 5681	EC 5681		90	120	103	3.7	38.7	1.51	20.20	7.6	0.60
328	EC 182972	EC 182972		96	125	121	4.8	42.7	1.71	17.60	3.8	0.63
329	EC 96592	EC 96592		127	145	114	4.8	42.2	1.58	22.40	10.2	0.70
330	EC 108620	EC 108620		85	129	80	4.1	32.5	1.17	14.60	15.5	0.60
331	EC 313801	EC 313801		102	132	125	5.1	47.8	1.94	21.80	8.3	0.80
332	EC 159073	EC 159073		89	122	119	4.8	41.0	1.61	19.50	11.7	0.48
333	EC 131290	EC 131290		89	125	101	4.8	35.2	1.71	17.70	5.1	0.67
334	EC 1249	EC 1249		90	125	107	4.1	36.4	1.71	21.30	5.4	0.70
335	EC 179872	EC 179872		83	120	86	4.1	38.3	1.41	20.40	7.9	0.67
336	EC 112034	EC 112034		96	125	112	4.4	43.4	1.71	23.60	6.3	0.80
337	EC 96540	EC 96540		96	125	111	4.8	40.5	1.44	23.80	6.3	0.63
338	EC 182972	EC 182972		94	127	100	4.4	27.8	1.31	23.10	4.4	0.57
339	EC 117069	EC 117069		95	129	115	4.1	41.0	1.37	24.80	9.5	0.60
340	EC 310506	EC 310506		90	125	97	3.7	39.3	1.78	19.10	6.3	0.70
341	EC 96583-1	EC 96583		95	129	120	5.1	44.0	1.71	22.20	7.6	0.80
342	EC 24900	EC 24900		84	126	88	4.8	33.2	1.58	14.90	11.4	0.70
343	EC 140599	EC 140599		90	128	110	4.4	36.2	1.51	24.50	8.9	0.60
344	EC 109282	EC 109282		94	131	89	3.7	32.9	1.74	16.20	5.7	0.73
345	EC 310504	EC 310504		105	137	114	5.8	43.5	2.31	13.10	7.6	0.87
346	EC 310509	EC 310509		102	141	117	4.4	45.2	1.58	20.50	7.0	0.73
347	EC 109232	EC 109232		95	127	121	4.8	40.7	1.61	22.80	12.7	0.68
348	EC 107017	EC 107017		95	127	124	5.4	43.5	2.01	19.60	6.0	0.65
349	EC 107534-1	EC 107534		90	128	93	3.7	29.5	1.21	18.30	8.3	0.43
350	EC 131313	EC 131313		95	131	85	4.8	29.1	1.51	16.40	7.0	0.55

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	IC/ Ec no.	Source	ch1	ch2	ch3	ch4	ch5	ch6	ch7	ch8	ch9
351	EC 16183	EC 16183		94	132	126	5.3	44.3	1.78	22.80	6.6	0.83
352	EC 131306	EC 131306		93	133	113	4.9	44.1	1.89	17.70	10.6	0.78
353	EC 108656	EC 108656		94	130	110	4.9	34.4	1.89	23.20	15.0	0.76
354	EC 109667	EC 109667		94	130	104	5.3	42.5	1.78	21.80	7.7	0.76
355	EC 108451	EC 108451		102	139	116	6.1	49.1	2.01	21.40	8.1	0.93
356	EC 117406	EC 117406		101	135	115	4.6	45.6	1.89	24.80	8.8	0.91
357	EC 108603	EC 108603		117	147	118	6.5	49.0	2.36	13.00	8.8	0.85
358	EC 159070	EC 159070		93	125	97	4.9	36.9	2.05	20.30	8.1	0.81
359	EC 310506-1	EC 310506		120	145	105	6.5	41.7	1.89	12.60	9.5	0.81
360	EC 179824	EC 179824		82	124	103	5.7	35.3	1.97	20.40	7.3	0.81
361	EC 162643	EC 162643		84	124	102	5.7	32.8	1.97	18.60	6.6	0.81
362	EC 131532	EC 131532		104	138	131	4.9	48.4	2.36	24.80	8.8	0.93
363	EC 22023	EC 22023		91	126	102	4.6	29.2	1.74	20.10	7.3	0.72
364	EC 109348	EC 109348		93	126	100	4.6	36.6	2.20	18.30	7.7	0.83
365	EC 10847	EC 10847		81	133	99	6.1	35.1	2.12	14.80	13.6	0.87
366	EC 130648	EC 130648		82	122	76	5.3	31.4	1.93	13.70	8.1	0.81
367	EC 140899	EC 140899		100	133	122	5.7	44.0	2.63	19.20	6.2	0.89
368	EC 130503	EC 130503		117	143	110	6.8	48.4	2.63	11.40	8.8	1.02
369	EC 130646-1	EC 130646		84	126	69	4.9	34.1	1.70	14.60	7.0	0.85
370	EC 133316	EC 133316		101	133	122	5.3	47.9	2.20	21.50	4.4	0.93
371	EC 57248	EC 57248		99	133	118	4.6	41.5	1.74	22.10	9.9	0.83
372	EC 183173	EC 183173		84	125	92	4.6	35.9	1.78	19.90	6.2	0.81
373	EC 159069	EC 159069		94	127	97	3.8	32.6	1.78	20.50	9.5	0.70
374	EC 16787	EC 16787		95	127	93	6.1	35.8	2.12	13.40	5.5	0.74
375	EC 104599	EC 104599		105	133	118	4.6	41.5	1.74	22.10	9.9	0.83
376	EC 131313-1	EC 131313		94	133	156	6.1	51.6	2.51	18.80	10.7	0.84
377	IGO 562	IC 372442	IGFRI, Jhansi	107	135	131	6.1	41.5	1.77	19.60	12.9	0.60
378	IGO 14	IC 372412	IGFRI, Jhansi	107	136	130	6.1	49.8	2.14	16.00	8.0	0.68
379	IGO 132		IGFRI, Jhansi	93	124	140	4.9	47.6	1.84	25.60	12.5	0.91
380	IGO 74	IC 372414	IGFRI, Jhansi	87	121	111	5.3	35.3	1.47	19.70	10.3	0.64
381	IGO 242	IC 372416	IGFRI, Jhansi	102	133	125	5.3	44.9	1.66	17.80	12.5	0.64
382	IGO 543	IC 372438	IGFRI, Jhansi	82	133	92	6.1	39.2	1.73	13.30	10.3	0.78
383	IGO 570	IC 372443	IGFRI, Jhansi	99	136	169	6.1	56.8	2.36	23.80	8.5	0.91
384	IGO 536	IC 372437	IGFRI, Jhansi	101	133	154	5.7	51.9	1.88	19.70	12.5	0.82
385	IGO 725	IC 372452	IGFRI, Jhansi	103	136	143	6.1	52.2	1.88	17.70	11.1	0.60

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	IC/ Ec no.	Source	ch1	ch2	ch3	ch4	ch5	ch6	ch7	ch8	ch9
386	IGO 374		IGFRI, Jhansi	83	125	97	3.8	34.4	1.62	15.60	8.5	0.74
387	IGO 371	IC 372421	IGFRI, Jhansi	82	127	89	4.9	35.9	1.58	10.10	13.8	0.78
388	IGO 586	IC 372445	IGFRI, Jhansi	108	135	132	6.1	49.6	2.32	16.40	15.6	0.84
389	IGO 1096	IC 372461	IGFRI, Jhansi	102	135	140	6.1	49.5	2.06	20.40	12.5	0.66
390	IGO 210	IC 372415	IGFRI, Jhansi	83	131	103	4.9	38.7	1.84	17.20	14.3	0.82
391	IGO 474	IC 372425	IGFRI, Jhansi	83	127	113	4.6	38.4	1.99	18.00	8.5	0.82
392	IGO 460	IC 372423	IGFRI, Jhansi	81	127	100	4.9	32.3	1.58	18.30	12.5	0.70
393	IGO 592		IGFRI, Jhansi	88	131	103	4.9	40.2	1.44	15.30	9.8	0.78
394	IGO 510	IC 372432	IGFRI, Jhansi	93	127	116	4.2	40.1	1.62	23.50	12.0	0.78
395	IGO 377	IC 372422	IGFRI, Jhansi	103	136	141	6.8	44.2	1.84	19.00	12.0	0.66
396	IGO 52	IC 372413	IGFRI, Jhansi	104	136	150	5.7	56.6	2.58	24.20	8.0	0.89
397	IGO 262	IC 372418	IGFRI, Jhansi	86	127	136	4.9	46.7	1.64	25.00	9.8	0.76
398	IGO 489	IC 372428	IGFRI, Jhansi	103	133	138	4.9	47.5	2.03	20.40	12.0	0.80
399	IGO 506	IC 372431	IGFRI, Jhansi	103	133	144	6.8	45.9	2.17	17.90	16.5	0.82
400	IGO 266	IC 372419	IGFRI, Jhansi	104	138	119	5.7	48.2	1.73	14.70	10.3	0.54
401	IGO 571	IC 372444	IGFRI, Jhansi	117	145	133	6.6	50.7	1.59	15.80	7.6	0.68
402	IGO 518	IC 372433	IGFRI, Jhansi	108	146	130	4.8	48.2	1.81	23.20	14.5	0.76
403	IGO 499	IC 372430	IGFRI, Jhansi	82	128	87	4.8	42.4	1.28	16.50	8.6	0.64
404	IGO 1040	IC 372457	IGFRI, Jhansi	109	133	157	5.5	51.5	1.98	28.10	9.2	0.89
405	IGO 456	IC 372426	IGFRI, Jhansi	82	128	78	4.4	33.8	2.06	13.50	5.3	0.89
406	IGO 1110	IC 372463	IGFRI, Jhansi	92	129	111	6.2	28.6	1.31	21.60	9.9	0.50
407	IGO 557	IC 372440	IGFRI, Jhansi	97	129	123	5.1	33.3	1.35	23.70	8.6	0.58
408	IGO 532	IC 372436	IGFRI, Jhansi	112	143	138	6.6	49.6	1.91	22.40	10.6	0.72
409	IGO 590	IC 372446	IGFRI, Jhansi	116	143	126	5.8	48.6	1.91	19.70	12.6	0.74
410	IGO 724	IC 372451	IGFRI, Jhansi	92	133	101	4.8	30.4	1.81	27.10	12.2	0.78
411	IGO 480	IC 372427	IGFRI, Jhansi	110	140	138	5.8	46.4	1.81	22.60	10.9	0.66
412	IGO 1305	IC 372473	IGFRI, Jhansi	105	140	130	5.1	42.8	2.06	22.80	7.9	0.74
413	IGO 243	IC 372417	IGFRI, Jhansi	113	140	137	5.8	46.0	1.70	22.20	13.2	0.56
414	IGO 2650	IC 372482	IGFRI, Jhansi	93	130	111	4.4	37.6	1.56	30.10	7.3	0.74
415	IGO 491	IC 372429	IGFRI, Jhansi	98	133	120	4.8	34.0	1.42	28.60	7.9	0.64
416	IGO 2670	IC 372483	IGFRI, Jhansi	85	132	99	4.4	36.1	1.67	18.00	6.6	0.72
417	IGO 597	IC 372447	IGFRI, Jhansi	85	132	87	4.0	33.5	1.35	20.50	5.3	0.60
418	IGO 466	IC 372424	IGFRI, Jhansi	110	139	112	5.5	40.9	2.13	23.10	9.9	0.82
419	IGO 560	IC 372441	IGFRI, Jhansi	113	139	128	5.8	46.3	1.95	23.50	8.3	0.80
420	IGO 903	IC 372456	IGFRI, Jhansi	107	140	147	5.1	52.1	2.16	22.80	9.9	0.91

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	IC/ Ec no.	Source	ch1	ch2	ch3	ch4	ch5	ch6	ch7	ch8	ch9
421	IGO 1092	IC 372459	IGFRI, Jhansi 109	133	110	5.5	33.4	1.77	16.40	8.3	0.64	
422	IGO 1310	IC 372475	IGFRI, Jhansi 99	127	128	5.5	39.9	1.70	21.40	6.6	0.66	
423	IGO 3946	IC 372488	IGFRI, Jhansi 112	133	106	4.8	31.7	1.63	20.30	9.6	0.68	
424	IGO 1309	IC 372474	IGFRI, Jhansi 108	133	140	6.6	45.4	2.20	26.30	12.6	0.82	
425	IGO 3065	IC 372487	IGFRI, Jhansi 82	127	103	5.5	42.0	1.63	22.70	5.9	0.84	
426	IGO 3972	IC 372489	IGFRI, Jhansi 98	135	107	3.9	38.7	1.91	21.60	9.0	0.62	
427	IGO 1319	IC 372476	IGFRI, Jhansi 94	130	99	4.6	40.1	1.54	20.20	8.6	0.65	
428	IGO 1079	IC 372458	IGFRI, Jhansi 106	147	109	4.9	38.1	1.68	19.60	9.4	0.60	
429	IGO 519	IC 372434	IGFRI, Jhansi 110	136	94	5.6	45.8	1.84	14.20	12.0	0.60	
430	IGO 368	IC 372420	IGFRI, Jhansi 85	129	68	4.6	23.7	1.48	12.40	6.4	0.67	
431	IGO 1302	IC 372472	IGFRI, Jhansi 102	141	110	4.9	44.8	1.78	17.80	11.6	0.69	
432	IGO 1257	IC 372471	IGFRI, Jhansi 102	141	117	4.3	52.5	1.71	19.00	10.9	0.74	
433	IGO 1230	IC 372469	IGFRI, Jhansi 104	141	93	4.9	33.8	2.05	16.20	10.5	0.81	
434	IGO 668	IC 372449	IGFRI, Jhansi 92	126	121	5.3	40.5	1.84	25.40	9.8	0.65	
435	IGO 2842	IC 372484	IGFRI, Jhansi 85	118	82	4.3	27.4	1.44	14.80	7.1	0.67	
436	IGO 666	IC 372448	IGFRI, Jhansi 114	141	119	5.9	50.2	1.74	14.80	10.5	0.78	
437	IGO 2650-1		IGFRI, Jhansi 108	137	110	5.9	42.5	2.15	13.40	10.9	0.74	
438	IGO 790	IC 372454	IGFRI, Jhansi 96	129	89	4.9	33.8	1.71	24.20	8.3	0.64	
439	IGO 1327	IC 372479	IGFRI, Jhansi 93	131	106	4.6	45.7	2.28	14.70	8.6	0.87	
440	IGO 524	IC 372435	IGFRI, Jhansi 80	130	73	3.9	30.9	1.41	12.90	7.9	0.60	
441	IGO 1249	IC 372470	IGFRI, Jhansi 110	137	97	4.3	38.2	1.78	17.90	9.0	0.67	
442	IGO 1219	IC 372468	IGFRI, Jhansi 102	139	117	3.9	50.8	1.81	24.10	10.1	0.78	
443	IGO 3012	IC 372485	IGFRI, Jhansi 85	128	70	3.9	33.9	1.24	13.20	6.0	0.64	
444	IGO 3013	IC 372486	IGFRI, Jhansi 107	135	111	4.6	47.4	2.25	23.50	11.3	0.76	
445	IGO 1116	IC 372464	IGFRI, Jhansi 85	125	85	4.3	36.9	1.58	16.30	6.8	0.71	
446	IGO 2118	IC 372481	IGFRI, Jhansi 102	135	116	3.9	53.2	2.01	18.70	9.0	0.72	
447	IGO 1094	IC 372460	IGFRI, Jhansi 102	141	123	5.6	46.9	1.91	17.40	10.5	0.64	
448	IGO 1109	IC 372462	IGFRI, Jhansi 86	131	89	5.3	35.7	1.27	16.50	7.5	0.64	
449	IGO 1324	IC 372477	IGFRI, Jhansi 92	130	78	3.9	30.1	1.71	18.90	7.1	0.51	
450	IGO 1198	IC 372466	IGFRI, Jhansi 113	141	109	5.3	43.8	1.98	14.20	16.1	0.67	
451	IGO 1120	IC 372465	IGFRI, Jhansi 119	146	134	6.6	57.3	1.68	12.10	15.7	0.62	

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	IC/ Ec no.	Source	ch1	ch2	ch3	ch4	ch5	ch6	ch7	ch8	ch9
452	IGO 671	IC 372450	IGFRI, Jhansi	96	131	107	3.9	38.3	1.61	21.00	13.0	0.60
453	IGO 728	IC 372453	IGFRI, Jhansi	110	142	105	4.9	44.6	1.86	18.30	11.1	0.62
454	IGO 903-1	IC 372456-1	IGFRI, Jhansi	105	142	122	4.6	53.3	2.24	22.60	8.4	0.89
455	IGO 1212	IC 372467	IGFRI, Jhansi	105	142	83	4.9	32.3	1.51	19.90	6.9	0.58
456	IGO 1328	IC 372480	IGFRI, Jhansi	108	137	95	4.3	37.1	1.58	19.30	11.5	0.65

ch1 = Days to 50 % flowering

ch 4 = Number of leaves

ch 7 = Internodal length (cm)

ch2 = Days to maturity

ch 5 = Leaf length (cm)

ch 8 = tillers / plant

ch3 = Plant height (cm)

ch 6 = Leaf width (cm)

ch 9 = Stem diameter 9cm)



## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch10	ch11	ch12	ch13	ch14	ch15	ch16	ch17	ch18
1	PI 486164	192	31.5	16.4	28.4	2.42	25.9	33.4	8.2	24.3
2	PI 497696	113	24.6	21.8	17.5	1.16	54.2	41.1	8.2	29.3
3	PI 497880	175	35.3	20.2	16.8	2.39	15.8	34.1	10.5	30.9
4	PI 497799	230	38.7	16.8	20.0	2.35	20.2	40.4	10.9	29.3
5	PI 497790	222	35.1	15.8	22.6	2.39	25.9	41.8	9.4	32.8
6	PI 497874	261	33.4	12.8	22.6	1.99	28.7	41.1	9.0	40.9
7	PI 497725	167	30.2	18.1	26.6	1.66	31.9	42.1	8.6	25.2
8	PI 466869	194	24.9	12.8	22.0	1.86	48.5	44.9	8.6	28.0
9	PI 497724	196	27.2	13.9	29.2	2.02	32.8	37.3	8.2	21.1
10	PI 497778	253	39.7	15.7	27.1	2.25	41.2	46.0	8.6	27.4
11	PI 497777	141	22.3	15.8	17.0	1.36	30.8	35.5	8.6	21.4
12	PI 497708	212	29.1	13.7	22.5	1.86	30.4	25.8	8.2	18.9
13	PI 497821	281	33.8	12.0	19.8	1.96	45.7	41.8	8.6	31.8
14	PI 498912	114	12.0	10.5	16.0	1.69	33.3	37.8	8.6	32.8
15	PI 497860	367	38.5	10.5	17.1	2.19	29.5	32.7	7.4	29.0
16	PI 497736	98	25.4	25.9	19.5	2.02	25.0	35.5	9.8	31.5
17	PI 476810	72	7.5	10.4	22.3	1.52	52.4	32.0	7.4	24.9
18	PI 497809	208	49.6	23.8	23.0	1.92	26.8	34.8	9.8	30.2
19	PI 497703	222	38.4	17.3	28.7	3.05	24.7	41.3	10.1	28.0
20	PI 471907	277	29.3	10.6	21.4	1.92	25.0	38.3	10.5	33.1
21	PI 497912	143	32.0	22.4	20.9	2.25	25.6	38.6	10.5	29.0
22	PI 497648	591	59.8	10.1	33.1	2.62	30.1	41.8	9.0	27.1
23	PI 497706	430	64.0	14.9	31.8	2.05	31.6	40.0	8.2	27.7
24	PI 486862	204	25.9	12.7	18.6	1.56	32.5	28.9	8.2	22.4
25	PI 486863	163	23.2	14.2	16.6	1.72	25.6	29.2	7.0	20.8
26	PI 497818	118	34.5	29.2	22.2	1.32	33.8	31.6	7.6	32.6
27	PI 497726	118	28.2	23.9	30.2	2.07	47.8	38.1	6.5	18.1
28	PI 497858	167	25.7	15.4	32.6	1.80	40.5	45.0	6.5	25.5
29	PI 497730	127	30.4	23.9	31.2	2.10	20.0	41.0	7.9	22.3
30	PI 466896	116	26.3	22.7	21.3	1.56	40.5	49.0	6.8	26.8
31	PI 497806	267	50.6	19.0	24.9	1.73	45.2	44.7	9.0	39.4
32	PI 497155	155	36.9	23.8	32.5	1.80	34.2	37.6	9.0	28.4
33	PI 466870	229	40.8	17.8	33.1	2.03	44.3	50.4	8.3	34.8
34	PI 497686	307	36.6	11.9	37.4	2.20	43.2	49.0	8.2	33.4
35	PI 486134	240	68.9	28.7	33.5	2.48	17.6	36.9	9.7	41.6

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch10	ch11	ch12	ch13	ch14	ch15	ch16	ch17	ch18
36	PI 466865	83	23.4	28.2	17.8	1.76	38.2	26.5	6.8	24.5
37	PI 497695	139	30.2	21.7	31.9	2.03	24.1	34.6	7.9	24.5
38	PI 497697	269	39.4	14.6	19.9	1.59	27.5	24.5	7.2	24.2
39	PI 466868	181	43.0	23.8	13.3	1.49	20.5	24.2	7.6	23.6
40	PI 497752	153	31.1	20.3	18.0	2.00	12.0	29.6	8.3	25.2
41	PI 466889	279	66.3	23.8	20.8	1.83	16.8	37.3	7.6	25.8
42	PI 497709	573	87.9	15.3	30.0	3.09	38.7	45.0	9.4	43.9
43	PI 497694	271	29.2	10.8	33.3	2.03	18.2	31.6	8.6	32.9
44	PI 469106	146	38.8	26.6	22.2	1.76	49.5	47.7	8.6	48.7
45	PI 466892	224	50.3	22.5	29.4	1.90	20.2	39.0	8.6	28.7
46	PI 466888	125	27.1	21.7	23.1	1.63	44.6	42.6	7.2	29.7
47	PI 497807	161	30.8	19.1	43.2	2.51	26.4	44.3	8.6	31.6
48	PI 497827	240	54.5	22.7	26.5	1.76	34.8	39.6	5.8	24.5
49	PI 466871	372	62.4	16.8	37.5	2.24	20.8	35.3	9.7	39.0
50	PI 466867	147	45.3	30.8	23.3	1.73	36.8	41.3	8.3	43.6
51	PI 477687	82	16.1	19.6	25.1	1.85	41.8	44.2	6.9	22.9
52	PI 431206	125	27.6	22.1	26.1	3.59	16.8	34.7	8.8	37.8
53	PI 497905	146	37.6	25.8	20.2	1.52	25.5	25.2	5.9	17.8
54	PI 497762	88	16.4	18.6	27.3	1.91	36.8	43.6	6.5	21.9
55	PI 497820	130	40.2	30.9	35.9	2.04	27.3	45.9	9.5	28.1
56	CI 9216	118	28.5	24.2	21.9	1.91	17.1	25.2	8.5	28.6
57	CI 9372	168	35.2	21.0	25.1	1.98	45.9	39.3	7.8	19.2
58	CI 7912	72	17.8	24.7	19.1	1.91	39.3	28.8	5.9	19.2
59	CI 9400	164	19.0	11.6	27.6	2.93	24.7	31.5	8.5	28.9
60	CI 9342	160	55.3	34.6	19.3	1.75	27.3	40.0	9.1	37.2
61	CI 9261	109	22.9	21.0	18.3	1.68	62.8	31.5	6.5	21.9
62	CI 9365	79	25.3	32.0	25.7	2.41	25.6	39.3	8.5	21.9
63	CI 9136	75	26.6	35.5	23.1	2.11	16.8	31.6	7.2	23.2
64	CI 8311	149	34.4	23.1	21.3	1.91	49.6	50.5	7.2	25.4
65	CI 9386	146	30.8	21.1	22.2	2.64	27.8	29.8	8.2	29.2
66	CI 9220	128	27.7	21.6	28.1	1.85	37.5	44.7	7.2	24.8
67	CI 9771	176	50.8	28.9	30.0	2.97	13.6	46.9	9.1	35.9
68	CI 9406	134	32.3	24.1	28.9	1.88	41.4	41.6	6.9	24.6
69	CI 9238	70	21.6	30.9	22.0	1.75	44.7	41.0	6.5	19.4
70	CI 9368	188	36.1	19.2	25.2	1.75	48.3	32.4	6.5	22.1

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch10	ch11	ch12	ch13	ch14	ch15	ch16	ch17	ch18
71	CI 5275	84	17.3	20.6	15.8	1.85	61.1	30.8	6.5	19.4
72	CI 9810	120	23.2	19.3	25.6	1.78	39.8	46.9	6.9	27.0
73	CI 8916	274	60.4	22.0	23.9	2.70	17.8	42.3	7.8	26.7
74	CI 9166	96	32.0	33.3	26.7	1.75	39.1	44.9	6.5	21.9
75	CI 8449	175	21.3	12.2	36.6	2.93	20.2	34.6	7.7	22.9
76	CI 9322	139	17.7	12.7	26.7	1.90	42.2	46.4	7.7	27.8
77	CI 9333	198	27.2	13.7	23.0	1.73	22.3	34.3	8.4	26.1
78	CI 9344	304	31.5	10.4	34.1	2.07	45.3	48.2	7.4	33.6
79	CI 8349	261	26.9	10.3	19.6	1.41	30.3	28.6	8.1	24.2
80	CI 9355	221	35.0	15.8	21.6	1.62	26.9	29.9	8.1	29.1
81	CI 9308	395	45.3	11.5	38.0	2.00	29.2	36.3	7.7	32.7
82	CI 8183	56	11.2	20.0	23.3	1.73	34.4	28.0	7.7	25.1
83	CI 9209	142	33.4	23.5	33.6	2.04	22.5	21.0	8.4	32.3
84	CI 9260	182	25.4	14.0	25.2	1.86	43.0	47.7	7.7	29.4
85	CI 9306	145	21.8	15.0	27.2	1.66	37.4	26.3	6.3	23.8
86	CI 4836	91	13.4	14.7	25.1	2.07	43.3	42.4	7.4	28.1
87	CI 9136	188	26.1	13.9	26.9	2.17	35.3	47.3	9.1	34.3
88	CI 8113	231	26.9	11.6	20.9	1.93	37.9	29.1	7.4	26.8
89	CI 9310	213	44.8	21.0	29.7	2.38	28.9	29.6	7.7	27.1
90	CI 8319	263	32.5	12.4	28.5	2.00	27.1	32.3	8.1	28.1
91	CI 8313	191	26.2	13.7	25.6	1.79	27.9	28.0	9.1	34.3
92	CI 9367	173	22.9	13.2	27.0	1.90	43.6	47.3	7.7	27.8
93	CI 9327	241	28.0	11.6	33.2	1.86	42.3	45.9	7.4	28.7
94	CI 9329	178	33.0	18.5	41.0	2.73	34.1	36.8	9.5	27.8
95	CI 4913	153	21.5	14.1	25.8	2.62	35.8	27.3	7.4	24.8
96	CI 9330	117	21.0	17.9	21.5	1.66	17.9	41.6	9.1	24.5
97	CI 9358	238	30.5	12.8	21.6	2.55	29.5	41.3	10.2	32.0
98	CI 9340	201	34.0	16.9	15.9	1.76	25.4	30.3	8.4	32.3
99	CI 9356	182	37.0	20.3	11.5	1.48	30.7	30.6	8.4	28.4
100	CI 9268	184	34.1	18.5	23.8	2.02	42.9	44.3	6.3	27.3
101	CI 9469	380	83.5	22.0	31.7	2.13	16.7	42.7	9.8	32.4
102	CI 9198	282	53.0	18.8	23.8	1.98	22.7	25.0	7.7	21.9
103	CI 9303	337	47.3	14.0	23.7	2.42	20.3	26.9	8.1	26.6
104	CI 9239	339	59.6	17.6	37.1	3.23	24.0	52.6	8.8	32.1
105	CI 9263	304	58.2	19.1	30.9	2.31	35.9	31.1	6.3	21.9

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch10	ch11	ch12	ch13	ch14	ch15	ch16	ch17	ch18
106	CI 9265	159	28.8	18.1	25.9	3.15	19.1	44.9	9.8	30.0
107	CI 7624	235	38.8	16.5	21.1	1.80	25.5	25.7	9.1	30.7
108	CI 9357	200	47.6	23.8	21.2	2.27	21.1	18.6	6.7	14.7
109	CI 9354	135	41.5	30.7	21.3	1.50	39.2	30.8	7.7	21.5
110	CI 9316	277	42.3	15.3	19.3	1.72	51.1	35.6	7.0	28.7
111	CI 9328	271	29.7	11.0	12.9	1.65	16.9	20.5	8.1	26.3
112	CI 9386	329	50.1	15.2	19.2	2.46	28.8	35.0	7.7	23.6
113	CI 8450	333	47.5	14.3	27.0	2.42	34.4	26.0	6.0	20.5
114	CI 9259	298	55.7	18.7	21.7	1.98	33.3	25.2	6.0	21.5
115	CI 9403	188	41.7	22.2	22.5	1.94	24.3	34.3	9.5	32.1
116	CI 8315	222	51.1	23.0	25.1	2.49	22.4	27.6	9.5	31.1
117	CI 9376	388	92.8	23.9	25.0	2.82	23.3	30.5	10.9	29.7
118	CI 8850	320	55.1	17.2	32.3	1.72	38.5	35.3	7.4	23.2
119	CI 9416	357	58.7	16.4	17.4	1.69	29.3	30.5	9.1	29.4
120	CI 9411	243	53.8	22.1	43.8	2.60	20.0	30.8	8.1	25.9
121	CI 9375	428	59.9	14.0	25.2	3.59	18.4	38.8	8.8	19.8
122	CI 9413	479	58.1	12.1	27.8	2.82	32.8	35.9	9.1	31.1
123	CI 9371	278	41.8	15.0	20.6	2.02	41.0	31.8	6.7	28.3
124	CI 9422	455	76.9	16.9	27.5	2.53	24.3	32.4	9.8	27.7
125	CI 9345	222	41.5	18.7	24.2	1.78	50.8	46.4	7.2	26.3
126	CI 9397	125	20.0	16.0	17.1	1.81	38.5	30.6	7.2	24.5
127	CI 9623	101	16.9	16.7	27.3	1.88	39.6	47.9	8.3	23.0
128	CI 9387	106	21.0	19.8	18.1	1.91	33.8	33.8	10.2	30.2
129	CI 9315	119	26.0	21.8	24.5	1.81	33.2	31.7	10.6	30.2
130	CI 9377	87	18.0	20.7	18.0	1.51	31.6	29.2	9.1	19.8
131	CI 9400	247	34.7	14.0	13.9	2.35	21.0	42.8	10.6	22.3
132	CI 9343	68	19.2	28.2	21.5	1.94	22.7	36.0	10.2	29.5
133	CI 9330	150	18.0	12.0	18.1	2.28	23.7	41.7	9.9	24.1
134	CI 9370	93	20.6	22.2	16.0	1.58	33.2	32.0	8.3	23.4
135	CI 9350	171	24.2	14.2	22.6	2.68	30.8	38.1	9.5	31.3
136	CI 9422	59	13.8	23.4	20.6	1.84	31.1	48.9	9.9	29.2
137	BGP 48	107	11.3	10.6	18.8	1.94	38.2	36.7	7.2	24.5
138	BGP 33	136	22.0	16.2	19.3	2.28	45.0	30.6	6.8	25.2
139	BGP 37	64	13.8	21.6	17.9	1.81	36.6	32.4	7.2	20.5
140	BGP 36	164	32.4	19.8	21.0	2.38	41.3	40.3	9.1	24.8

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch10	ch11	ch12	ch13	ch14	ch15	ch16	ch17	ch18
141	BGP 13	44	7.7	17.5	13.5	1.81	40.6	30.2	7.2	27.4
142	BGP 4	109	19.9	18.3	19.6	2.25	48.7	46.8	7.6	27.7
143	BGP 59	153	30.8	20.1	21.7	2.82	41.3	38.1	8.0	25.2
144	BGP 64	108	16.8	15.6	20.8	1.84	28.4	32.8	7.2	21.2
145	BGP 96	78	16.1	20.6	16.4	2.01	29.1	39.9	7.6	27.0
146	BGP 42	102	25.1	24.6	21.2	2.04	34.5	31.5	5.7	23.0
147	BGP 41	109	20.5	18.8	22.3	2.41	42.1	35.8	7.6	25.9
148	BGP 38	100	12.8	12.8	20.6	2.11	34.7	31.0	8.0	31.7
149	BGP 12	143	28.5	19.9	21.1	1.88	38.2	41.7	8.3	27.0
150	BGP 9	108	24.0	22.2	24.6	2.58	37.7	33.1	6.3	24.2
151	BGP 75	144	42.4	29.4	27.0	2.34	23.8	35.5	9.1	31.4
152	BGP 71	115	16.6	14.4	23.4	2.10	28.8	32.5	8.4	32.1
153	BGP 63	131	22.0	16.8	33.6	2.58	29.1	35.5	9.5	37.2
154	BGP 87	86	21.4	24.9	21.5	1.63	23.7	24.5	7.0	21.5
155	BGP 58	263	33.8	12.9	34.6	2.81	26.8	38.1	8.8	30.0
156	BGP 95	148	31.1	21.0	30.9	2.31	23.8	28.2	7.7	25.6
157	BGP 35	94	15.0	16.0	24.6	2.37	29.9	29.7	8.1	24.9
158	BGP 94	141	27.0	19.1	27.0	2.41	29.3	29.8	8.8	32.1
159	BGP 10	86	19.3	22.4	18.3	1.59	40.0	31.6	7.4	25.6
160	BGP 40	166	31.7	19.1	20.2	1.90	33.7	33.5	7.7	24.2
161	BGP 39	151	23.0	15.2	30.4	2.24	22.5	40.1	8.1	21.9
162	BGP 44	158	33.2	21.0	28.7	2.58	21.0	33.8	8.8	28.3
163	BGP 68	148	19.1	12.9	38.3	2.98	38.4	30.8	8.1	27.0
164	BGP 65	227	30.6	13.5	23.4	2.24	31.3	32.8	7.0	23.9
165	BGP 79	137	37.5	27.4	21.3	2.20	32.8	43.7	9.5	35.2
166	BGP 34	110	14.4	13.1	27.8	2.48	41.7	37.8	8.1	24.2
167	BGP 23	110	15.7	14.3	31.9	2.75	36.1	35.1	8.1	26.6
168	BGP 55	139	20.6	14.8	26.2	2.10	23.8	39.4	9.1	34.1
169	BGP 20	131	24.0	18.3	24.8	2.14	25.6	38.8	9.1	28.7
170	BGP 91	114	20.1	17.6	29.3	2.20	35.1	27.8	7.4	21.9
171	BGP 21	190	52.0	27.4	30.1	3.09	22.2	47.4	8.8	32.1
172	BGP 1	101	28.9	28.6	31.5	2.24	26.0	44.4	9.1	33.5
173	BGP 60	218	34.5	15.8	32.6	2.54	36.6	37.1	8.4	23.9
174	BGP 51	110	13.9	12.6	17.2	1.76	23.8	39.6	8.8	32.8
175	BGP 66	170	27.2	16.0	20.7	1.12	40.2	35.1	6.6	23.0

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch10	ch11	ch12	ch13	ch14	ch15	ch16	ch17	ch18
176	BGP 85	126	20.9	16.6	28.4	1.36	38.7	28.7	7.5	28.6
177	BGP 62	141	23.4	16.6	25.2	1.65	37.7	23.3	5.9	19.3
178	BGP 50	171	19.8	11.6	35.1	1.75	47.2	29.6	6.9	24.6
179	BGP 82	187	35.7	19.1	27.6	1.75	40.9	30.5	5.9	21.5
180	BGP 69	266	33.8	12.7	21.8	1.50	38.9	31.0	7.2	26.5
181	BGP 86	227	32.0	14.1	20.0	1.82	30.2	28.7	5.3	18.4
182	BGP 88	163	32.4	19.9	26.2	1.62	42.5	25.0	6.6	24.0
183	BGP 17	109	17.3	15.9	26.6	1.94	22.8	21.4	6.2	20.2
184	BGP 92	131	16.9	12.9	29.8	1.21	37.0	23.3	6.6	21.8
185	BGP 73	128	13.6	10.6	24.9	1.79	37.0	24.3	6.2	20.2
186	BGO 11	130	17.5	13.5	22.9	1.55	37.9	27.5	7.2	20.2
187	BGP 70	114	24.4	21.4	31.3	1.65	35.9	27.8	5.9	17.4
188	BGP 74	104	18.0	17.3	18.3	1.48	34.2	28.1	7.5	23.3
189	BGP 15	160	20.3	12.7	17.5	1.12	31.1	24.0	6.6	21.2
190	BGP 3	162	25.4	15.7	20.8	1.36	28.7	22.9	6.9	19.0
191	BGP 19	167	28.9	17.3	25.4	1.65	34.2	26.9	6.6	20.5
192	BGP 16	64	11.8	18.4	22.8	1.43	42.5	32.3	6.2	19.3
193	BGP 67	181	30.6	16.9	26.6	1.45	36.2	36.0	7.5	26.1
194	BGP 98	120	19.8	16.5	21.1	1.24	40.9	25.0	6.2	21.8
195	BGP 47	202	32.2	15.9	29.4	1.72	28.4	25.0	7.2	23.3
196	BGP 83	202	27.9	13.8	26.9	1.53	41.7	30.8	6.9	20.9
197	BGP 97	152	34.1	22.4	28.4	1.60	24.9	25.6	6.9	23.3
198	BGP 93	276	38.7	14.0	21.0	1.79	23.6	27.8	7.8	23.7
199	BGP 46	160	25.4	15.9	24.0	1.45	31.7	31.4	8.4	28.3
200	BGP 14	171	25.4	14.9	30.3	1.35	44.9	46.6	7.7	32.2
201	BGP 18	147	26.0	17.7	23.2	1.91	42.1	36.2	8.8	30.6
202	BGP 76	138	13.8	10.0	22.1	1.88	47.0	42.2	8.1	25.2
203	BGP 89	167	35.3	21.1	22.6	2.08	31.0	35.4	8.1	26.9
204	BGP 81	171	21.8	12.7	21.0	2.11	43.0	37.4	7.4	27.7
205	BGP 61	280	42.9	15.3	28.5	2.11	46.3	36.2	7.7	27.7
206	PA 2672	155	19.6	12.6	24.1	1.71	43.4	38.2	7.0	28.1
207	PA 2857	72	18.6	25.8	22.6	1.42	31.5	29.8	6.3	22.3
208	PA 3562	77	19.2	24.9	21.4	1.88	43.4	30.6	7.0	23.2
209	PA 3498	251	28.9	11.5	29.7	2.24	35.2	40.4	8.8	31.8
210	PA 2673	127	19.3	15.2	19.8	1.78	39.4	27.5	7.7	30.2

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch10	ch11	ch12	ch13	ch14	ch15	ch16	ch17	ch18
211	PA 2840	171	25.9	15.1	39.4	2.14	42.7	46.2	8.1	32.7
212	PA 3579	213	30.7	14.4	16.3	1.65	36.1	29.4	6.7	21.5
213	PA 2838	109	16.9	15.5	25.1	2.08	38.3	29.2	6.3	24.2
214	PA 2828	235	26.8	11.4	37.0	1.75	42.7	50.5	8.1	31.0
215	PA 2822	184	18.7	10.2	29.6	1.78	28.1	30.6	7.0	23.2
216	PA 2685	161	25.2	15.7	25.8	1.52	44.5	32.2	7.0	31.0
217	PA 2662	129	21.0	16.3	32.6	1.78	41.6	40.2	7.4	28.5
218	PA 2854	203	27.7	13.6	31.6	1.91	39.9	33.4	9.0	25.4
219	PA 2673	108	21.4	19.8	24.4	1.45	40.3	55.1	8.4	32.2
220	PA 2699	86	11.7	13.6	17.8	1.68	63.1	31.0	7.4	26.5
221	PA 2704	138	24.8	18.0	25.9	1.85	46.3	43.4	7.0	32.2
222	PA 2682	155	17.8	11.5	25.3	2.80	41.8	43.8	8.1	34.7
223	PA 2668	106	22.2	20.9	22.2	1.78	41.0	30.6	7.0	23.6
224	PA 2829	146	23.0	15.8	39.5	2.93	46.0	48.5	7.7	33.1
225	PA 2826	158	25.6	16.2	26.1	1.91	43.0	34.2	7.4	31.8
226	PA 2823	127	29.9	23.5	19.1	1.84	31.5	34.6	7.0	23.1
227	PA 2849	179	36.1	20.2	29.8	1.69	35.9	30.1	6.7	25.3
228	PA 2878	96	18.6	19.4	19.7	1.90	43.8	23.0	5.5	20.8
229	PA 2853	205	56.3	27.5	24.5	1.50	47.9	30.4	7.0	25.3
230	PA 2802	214	39.1	18.3	18.6	1.65	38.7	23.0	5.5	17.6
231	PA 2803	178	27.4	15.4	21.7	1.56	38.7	24.0	5.5	16.0
232	PA 2809	286	58.8	20.6	33.5	2.15	32.5	31.4	7.9	25.7
233	PA 2714	163	31.7	19.4	22.4	1.59	61.6	37.4	6.4	21.2
234	PA 2780	123	17.2	14.0	19.7	1.65	36.6	23.7	6.1	19.6
235	PA 2832	560	80.5	14.4	43.9	2.43	34.4	40.6	7.9	24.4
236	PA 2821	319	62.4	19.6	39.3	2.06	25.0	34.6	7.6	23.7
237	PA 2829	254	49.6	19.5	24.4	2.00	25.7	26.9	7.6	20.2
238	PA 2823	281	60.5	21.5	38.5	2.18	28.2	33.3	7.0	25.7
239	PA 2824	620	83.4	13.5	41.9	2.47	23.6	41.3	7.9	30.5
240	PA 2812	320	73.3	22.9	27.6	1.81	35.9	33.8	7.0	29.2
241	PA 2828	183	38.9	21.3	21.8	1.56	35.6	25.3	6.1	18.0
242	PA 2827	422	65.8	15.6	29.1	2.65	30.8	32.8	7.3	32.4
243	PA 2674	232	42.8	18.4	17.5	1.53	35.9	24.3	7.3	25.3
244	PA 2830	225	37.2	16.5	17.4	1.84	38.8	24.2	5.2	14.8
245	PA 2877	493	65.9	13.4	22.9	1.97	31.1	30.4	7.3	29.5

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch10	ch11	ch12	ch13	ch14	ch15	ch16	ch17	ch18
246	PA 2807	172	30.3	17.6	14.9	1.65	41.7	23.4	6.4	21.5
247	PA 2885	245	43.3	17.7	22.8	1.81	29.8	27.5	7.3	27.3
248	EC 79873	335	49.3	14.7	20.3	1.62	50.6	35.8	7.3	27.9
249	EC 108656	163	33.4	20.5	23.7	2.00	23.6	37.8	7.9	26.3
250	EC 61704	196	34.2	17.4	33.1	1.53	46.2	39.7	7.0	25.7
251	EC 57332	287	40.8	14.2	23.7	2.25	32.0	38.6	6.6	26.0
252	EC 107892	287	36.1	12.6	33.9	1.93	33.5	45.3	7.2	25.1
253	EC 130643	103	15.7	15.2	16.8	1.58	24.7	31.7	5.7	21.1
254	EC 57662	177	26.3	14.9	37.8	2.18	32.9	40.0	6.0	24.5
255	EC 108439	178	30.5	17.1	30.7	1.86	36.5	41.8	6.3	23.9
256	EC 16929	113	25.4	22.5	28.0	2.00	31.7	31.0	5.4	19.6
257	EC 107534	185	35.1	19.0	30.8	2.49	31.4	38.3	5.4	22.6
258	EC 102331	208	36.2	17.4	28.0	2.25	36.5	36.2	5.4	21.4
259	EC 108456	252	30.4	12.1	30.4	2.42	28.9	60.2	7.2	27.8
260	EC 97525	193	40.1	20.8	26.0	2.11	28.3	35.9	5.2	22.9
261	EC 31058	170	38.9	22.9	33.9	2.18	25.3	47.4	7.2	27.2
262	EC 107021	127	22.1	17.4	25.3	2.35	35.9	43.9	5.4	22.3
263	EC 35151	148	29.2	19.7	21.3	2.11	37.4	38.3	6.3	23.6
264	EC 35216	89	20.0	22.5	33.3	2.11	30.6	41.1	6.6	23.9
265	EC 96583	130	23.5	18.1	32.4	1.93	31.0	39.7	6.6	29.1
266	EC 97537	182	26.2	14.4	36.4	2.11	36.2	43.2	6.6	27.5
267	EC 52807	165	24.0	14.5	28.4	1.83	36.8	42.5	6.3	24.5
268	EC 10483	180	28.3	15.7	33.9	2.11	32.6	40.4	6.0	23.2
269	EC 34576	187	27.9	14.9	33.4	2.00	34.1	39.0	5.7	23.6
270	EC 196071	170	32.3	19.0	24.9	2.21	25.6	32.0	6.3	18.7
271	EC 43555	187	29.4	15.7	32.0	1.76	36.2	38.0	6.0	23.6
272	EC 35753	198	39.3	19.8	29.7	2.25	37.4	40.7	6.0	24.5
273	EC 107624	85	16.4	19.3	22.1	2.14	35.3	40.4	6.6	25.1
274	EC 104492	243	34.3	14.1	33.1	2.14	32.4	39.2	6.6	23.2
275	EC 86444	154	26.5	17.2	35.7	2.14	31.5	38.0	6.0	23.2
276	EC 97248	127	21.8	17.2	22.5	1.33	37.0	39.3	6.7	24.7
277	EC 102011	112	23.5	21.0	27.5	1.57	36.3	41.7	7.4	29.3
278	EC 102353	123	25.2	20.5	30.6	1.79	35.7	33.2	7.0	27.9
279	EC 16931	150	23.8	15.9	34.1	1.64	36.3	38.6	7.0	28.2
280	EC 54837	166	33.0	19.9	29.7	1.70	36.3	40.3	7.7	28.9



## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch10	ch11	ch12	ch13	ch14	ch15	ch16	ch17	ch18
281	EC 108437	193	50.1	26.0	37.9	1.76	42.4	36.9	7.0	27.9
282	EC 57651	116	22.3	19.2	46.0	2.04	48.1	38.3	8.1	32.1
283	EC 178960	127	22.7	17.9	33.0	1.64	37.0	40.3	7.7	28.9
284	EC 104006	127	29.0	22.8	34.0	1.54	38.8	36.6	6.3	27.9
285	EC 102643	73	14.6	20.0	25.7	1.61	43.4	37.3	6.7	25.7
286	EC 10448	148	21.7	14.7	28.4	1.70	39.9	41.3	8.1	29.6
287	EC 97520	169	20.3	12.0	33.8	1.70	40.0	41.0	6.7	27.5
288	EC 82355	166	22.8	13.7	30.7	1.95	29.1	48.8	7.7	27.9
289	EC 96576	195	28.4	14.6	33.6	1.82	36.0	35.2	7.7	28.2
290	EC 107324	258	33.2	12.9	34.3	2.04	35.3	51.5	7.7	27.2
291	EC 466859	87	33.3	38.3	26.0	1.70	50.1	50.5	7.4	27.9
292	EC 130748	87	15.8	18.2	22.8	1.57	43.0	46.4	7.4	30.3
293	EC 107221	69	13.4	19.4	27.2	1.45	34.3	34.6	6.3	23.6
294	EC 109221	87	14.4	16.6	28.1	1.36	41.7	40.0	7.0	26.5
295	EC 102348	127	29.7	23.4	25.9	1.64	33.0	31.5	6.7	29.6
296	EC 108586	160	29.4	18.4	42.1	1.88	34.0	39.0	6.3	24.7
297	EC 133510	187	27.8	14.9	23.0	1.76	37.3	32.2	6.3	26.5
298	EC 100758	139	33.1	23.8	29.9	1.45	40.7	38.6	7.0	30.0
299	EC 57661	146	27.7	19.0	31.8	1.76	39.0	43.7	6.7	28.2
300	EC 131050	108	24.4	22.6	22.5	1.30	40.7	39.6	7.4	28.9
301	EC 107541	149	23.1	15.5	30.4	2.00	35.9	37.6	7.8	24.6
302	EC 54836	245	37.6	15.3	29.6	2.25	37.8	36.0	7.0	24.6
303	EC 108124	233	49.9	21.4	28.7	1.93	31.5	39.6	7.4	27.6
304	EC 29049	355	53.8	15.2	35.6	2.25	36.6	36.8	7.8	24.6
305	EC 16695	360	57.8	16.1	18.4	2.21	29.0	36.6	9.6	32.9
306	EC 178960	225	42.7	19.0	41.2	2.07	37.3	40.2	7.8	26.3
307	EC 58531	110	18.7	17.0	23.7	1.86	40.0	37.1	7.8	25.0
308	EC 9884	231	38.5	16.7	30.6	1.79	36.7	35.3	8.1	26.6
309	EC 9269	270	43.4	16.1	23.5	1.90	35.6	35.0	7.8	26.0
310	EC 15969	135	28.8	21.3	21.0	1.79	35.9	41.5	8.1	25.6
311	EC 16967	225	40.9	18.2	24.6	1.86	26.9	28.6	7.4	20.0
312	EC 9970	263	57.3	21.8	32.6	2.74	35.8	37.0	8.1	27.0
313	EC 86444	214	38.0	17.8	32.5	1.62	32.8	30.1	7.0	22.3
314	EC 107022	298	42.9	14.4	23.3	1.97	42.4	34.8	7.0	25.3
315	EC 4438	349	58.3	16.7	29.1	1.97	35.8	36.5	8.1	27.6

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch10	ch11	ch12	ch13	ch14	ch15	ch16	ch17	ch18
316	EC 28815	262	33.9	12.9	23.5	2.25	42.5	36.1	7.4	27.0
317	EC 310507	265	49.9	18.8	26.6	1.90	37.0	39.7	7.8	27.3
318	EC 28804	366	60.9	16.6	35.6	1.79	37.3	35.8	7.2	28.0
319	EC 104472	368	50.2	13.6	30.1	1.97	38.9	38.1	8.1	29.6
320	EC 70924	203	53.5	26.4	24.2	2.00	32.9	39.2	7.8	27.3
321	EC 4721	231	51.0	22.1	29.2	1.69	36.4	46.8	7.8	28.6
322	EC 96548	295	56.0	19.0	28.0	2.46	24.3	35.0	7.4	24.6
323	EC 108602	169	39.6	23.4	25.7	2.04	32.5	35.2	7.0	21.0
324	EC 130646	203	44.3	21.8	19.4	1.76	25.7	31.7	7.8	25.0
325	EC 108648	248	40.9	16.5	32.2	2.18	33.9	32.7	7.0	25.3
326	EC 159606	69	11.4	16.5	24.6	1.86	28.2	45.9	7.7	34.9
327	EC 5681	130	29.7	22.8	36.3	1.95	35.6	45.0	7.4	24.3
328	EC 182972	114	32.3	28.3	40.2	2.39	36.2	37.9	6.7	25.7
329	EC 96592	241	31.3	13.0	37.4	1.86	36.7	37.9	6.8	27.0
330	EC 108620	162	26.1	16.1	31.5	1.83	32.8	42.5	7.4	25.4
331	EC 313801	244	35.0	14.3	37.8	2.14	31.4	33.3	6.8	28.0
332	EC 159073	246	51.3	20.9	29.4	2.14	34.2	31.4	7.0	26.1
333	EC 131290	111	18.0	16.2	23.9	1.62	28.1	30.2	5.8	23.3
334	EC 1249	113	19.1	16.9	36.2	2.18	32.1	33.4	6.7	26.5
335	EC 179872	113	22.9	20.3	23.7	1.69	41.4	43.5	7.4	30.7
336	EC 112034	134	20.3	15.1	39.0	1.93	31.8	41.4	7.9	29.6
337	EC 96540	162	26.1	16.1	30.8	1.62	31.5	42.6	8.2	28.0
338	EC 182972	74	14.4	19.5	31.0	1.79	33.7	34.8	7.4	27.0
339	EC 117069	174	37.0	21.3	34.4	1.69	35.1	37.3	7.4	25.4
340	EC 310506	130	31.6	24.3	33.4	2.18	32.8	34.8	7.0	26.1
341	EC 96583	137	36.6	26.7	34.3	1.90	37.7	42.5	7.4	31.7
342	EC 24900	179	33.2	18.5	31.0	2.04	45.7	33.1	6.3	26.8
343	EC 140599	151	24.9	16.5	33.8	1.76	38.4	38.9	7.4	30.7
344	EC 109282	95	19.4	20.4	22.9	1.55	29.5	31.5	7.4	27.5
345	EC 310504	260	55.1	21.2	27.6	2.39	29.2	34.1	8.1	28.2
346	EC 310509	148	22.7	15.3	39.7	1.97	33.4	39.1	8.1	29.6
347	EC 109232	253	41.2	16.3	34.8	1.83	39.3	37.7	7.0	26.1
348	EC 107017	176	35.5	20.2	26.5	2.60	37.9	38.9	8.1	36.0
349	EC 107534	91	15.8	17.4	30.5	1.90	33.9	32.4	7.0	24.0
350	EC 131313	111	26.2	23.6	20.8	1.44	26.7	30.2	6.8	24.3

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch10	ch11	ch12	ch13	ch14	ch15	ch16	ch17	ch18
351	EC 16183	172	22.2	12.9	30.1	1.77	33.0	37.9	6.5	25.4
352	EC 131306	232	49.4	21.3	27.8	1.85	28.2	32.1	6.2	23.0
353	EC 108656	344	64.0	18.6	24.0	1.99	36.8	34.0	6.2	23.0
354	EC 109667	134	34.3	25.6	24.3	1.74	50.5	33.1	6.2	28.1
355	EC 108451	197	49.0	24.9	28.2	2.14	27.5	50.1	6.2	25.4
356	EC 117406	195	35.0	17.9	33.6	1.99	37.5	37.9	6.2	23.3
357	EC 108603	170	20.9	12.3	26.8	2.43	26.4	30.5	6.8	24.3
358	EC 159070	167	24.3	14.6	22.6	2.32	35.0	37.4	5.9	24.7
359	EC 310506	192	47.1	24.5	34.5	2.64	25.7	40.1	8.3	31.1
360	EC 179824	132	24.4	18.5	24.2	2.39	43.9	32.6	6.2	23.7
361	EC 162643	105	16.7	15.9	20.5	2.17	46.0	37.0	6.2	28.1
362	EC 131532	292	38.9	13.3	35.2	2.93	49.6	46.0	5.9	23.0
363	EC 22023	145	18.3	12.6	24.9	2.17	35.7	32.1	5.9	24.7
364	EC 109348	170	28.4	16.7	27.0	2.61	36.0	31.9	5.3	22.3
365	EC 10847	297	46.1	15.5	15.1	1.92	29.6	28.3	5.9	23.3
366	EC 130648	129	25.6	19.8	19.2	2.06	47.8	41.2	6.5	29.4
367	EC 140899	215	33.9	15.8	24.3	2.50	40.7	36.4	6.2	25.7
368	EC 130503	299	64.9	21.7	26.4	2.10	34.3	31.9	7.7	30.8
369	EC 130646	108	22.8	21.1	16.9	2.14	44.3	35.7	6.5	25.4
370	EC 133316	154	27.4	17.8	28.5	2.32	42.8	40.5	6.5	26.4
371	EC 57248	205	45.5	22.2	35.2	1.81	45.3	44.1	6.5	29.1
372	EC 183173	103	20.8	20.2	21.2	1.88	38.9	36.0	8.0	29.8
373	EC 159069	181	27.0	14.9	27.2	2.06	35.5	37.9	6.5	27.0
374	EC 16787	78	18.2	23.3	19.3	1.88	36.4	50.4	6.2	27.4
375	EC 104599	218	35.3	16.2	28.5	1.81	42.3	38.4	5.6	23.3
376	EC 131313	395	58.8	14.9	29.7	2.14	40.6	39.6	7.9	27.8
377	IGO 562	236	36.6	15.5	26.3	1.56	38.8	29.0	7.2	30.0
378	IGO 14	176	31.2	17.7	29.2	1.90	33.6	48.8	8.2	31.5
379	IGO 132	359	53.4	14.9	39.8	1.66	40.0	39.9	7.2	28.9
380	IGO 74	230	29.2	12.7	30.5	1.70	42.1	30.3	7.2	27.4
381	IGO 242	214	34.1	15.9	27.0	1.56	27.1	29.0	6.9	34.1
382	IGO 543	137	28.9	21.1	25.8	1.59	23.3	26.7	4.8	17.6
383	IGO 570	280	32.7	11.7	37.7	1.93	35.8	39.6	7.9	36.8
384	IGO 536	261	30.7	11.8	38.8	1.53	29.2	36.0	7.5	25.5
385	IGO 725	266	40.5	15.2	29.2	1.70	27.4	29.7	7.5	25.9

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch10	ch11	ch12	ch13	ch14	ch15	ch16	ch17	ch18
386	IGO 374	112	25.5	22.8	30.7	1.76	35.8	29.4	6.5	27.0
387	IGO 371	178	28.5	16.0	31.7	1.87	31.6	31.7	6.2	24.8
388	IGO 586	420	48.6	11.6	25.8	1.83	27.4	30.0	6.9	28.1
389	IGO 1096	250	32.9	13.2	35.1	1.97	31.3	31.0	7.9	29.6
390	IGO 210	219	30.5	13.9	33.0	2.14	41.2	31.7	6.9	29.6
391	IGO 474	159	21.1	13.3	31.6	1.87	33.7	29.7	6.9	27.8
392	IGO 460	151	21.7	14.4	29.6	1.56	35.8	33.0	7.5	33.4
393	IGO 592	112	15.6	13.9	28.7	1.70	39.7	40.6	7.2	30.4
394	IGO 510	234	28.2	12.1	32.9	1.83	36.3	34.6	7.9	27.0
395	IGO 377	258	27.6	10.7	24.8	1.53	32.2	29.7	7.2	26.6
396	IGO 52	296	37.5	12.7	35.9	2.51	30.1	37.6	8.2	30.4
397	IGO 262	302	31.5	10.4	40.3	1.39	41.8	29.4	6.9	26.6
398	IGO 489	280	32.9	11.8	43.1	2.14	26.5	30.0	7.9	30.4
399	IGO 506	417	49.1	11.8	31.0	2.14	34.0	33.6	8.2	28.1
400	IGO 266	219	29.4	13.4	27.7	1.66	24.7	34.3	7.5	28.9
401	IGO 571	153	30.9	20.2	36.2	1.78	26.1	35.8	8.6	29.7
402	IGO 518	289	51.0	17.6	40.0	2.28	24.8	41.1	7.6	27.5
403	IGO 499	69	16.5	23.9	25.0	1.64	38.2	24.6	5.8	22.1
404	IGO 1040	244	39.9	16.4	39.7	2.20	49.0	49.2	8.6	37.7
405	IGO 456	73	11.0	15.1	17.4	1.74	36.3	32.7	7.2	26.1
406	IGO 1110	156	25.0	16.0	27.8	1.64	45.4	33.4	6.8	25.7
407	IGO 557	182	43.9	24.1	35.8	1.92	42.5	42.2	7.9	27.2
408	IGO 532	200	37.6	18.8	39.4	2.20	41.8	45.7	7.9	32.3
409	IGO 590	236	56.1	23.8	33.5	1.92	34.6	38.3	7.9	26.1
410	IGO 724	193	30.2	15.6	21.7	1.60	49.0	44.3	6.5	21.7
411	IGO 480	173	46.3	26.8	33.1	2.03	36.3	41.1	9.0	29.4
412	IGO 1305	142	30.9	21.8	36.3	1.88	40.5	41.1	7.6	29.0
413	IGO 243	227	39.7	17.5	33.8	1.88	33.7	38.0	6.5	23.9
414	IGO 2650	151	23.8	15.8	27.3	1.99	34.0	36.2	7.6	28.6
415	IGO 491	131	22.1	16.9	35.6	1.67	34.6	40.4	7.6	27.9
416	IGO 2670	78	18.5	23.7	33.5	1.74	38.2	48.1	9.0	31.2
417	IGO 597	85	17.3	20.4	25.7	1.56	55.5	44.6	8.3	27.9
418	IGO 466	145	29.7	20.5	26.9	1.78	33.0	38.3	7.6	22.1
419	IGO 560	171	23.9	14.0	31.7	2.06	25.8	42.2	9.0	25.4
420	IGO 903	311	66.4	21.4	49.8	3.41	33.3	38.3	9.0	26.1

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch10	ch11	ch12	ch13	ch14	ch15	ch16	ch17	ch18
421	IGO 1092	107	27.6	25.8	19.6	1.49	26.5	43.6	9.7	33.7
422	IGO 1310	140	32.2	23.0	39.0	1.88	39.2	41.8	8.3	32.6
423	IGO 3946	144	31.8	22.1	24.7	1.81	39.2	36.5	6.5	21.0
424	IGO 1309	275	50.2	18.3	33.3	2.17	32.4	31.3	7.6	26.1
425	IGO 3065	95	15.5	16.3	31.6	1.85	35.6	35.5	8.3	29.4
426	IGO 3972	147	21.0	14.3	21.3	1.83	36.2	29.5	6.4	23.1
427	IGO 1319	129	22.0	17.1	27.8	1.57	42.4	33.9	8.8	34.8
428	IGO 1079	117	22.1	18.9	25.5	1.89	40.6	33.0	6.7	25.5
429	IGO 519	170	27.9	16.4	22.5	1.89	44.2	36.6	7.0	22.1
430	IGO 368	64	12.6	19.7	22.7	1.47	31.4	33.6	7.3	25.1
431	IGO 1302	154	24.7	16.0	30.0	1.83	44.2	32.7	6.4	24.4
432	IGO 1257	165	23.8	14.4	35.8	1.73	43.5	34.8	6.7	26.5
433	IGO 1230	152	25.1	16.5	21.4	2.37	31.8	38.0	7.9	26.1
434	IGO 668	133	21.3	16.0	22.6	1.80	31.1	44.2	9.4	30.5
435	IGO 2842	70	12.1	17.3	21.7	1.41	30.3	34.8	7.3	28.1
436	IGO 666	207	39.7	19.2	27.5	1.89	39.1	36.3	7.6	25.1
437	IGO 2650	209	29.0	13.9	26.2	2.44	45.7	36.0	7.3	25.1
438	IGO 790	125	27.2	21.8	17.1	1.96	42.8	42.2	6.7	25.1
439	IGO 1327	160	21.3	13.3	25.9	1.99	35.8	34.8	6.7	25.1
440	IGO 524	79	13.4	17.0	23.3	1.51	40.9	31.3	5.6	22.1
441	IGO 1249	129	24.4	18.9	26.7	1.92	39.8	34.2	6.4	27.1
442	IGO 1219	188	26.7	14.2	36.8	1.89	32.9	31.9	7.0	27.8
443	IGO 3012	47	8.7	18.5	19.9	1.47	42.4	41.0	7.6	28.5
444	IGO 3013	210	26.1	12.4	30.6	2.40	41.3	32.4	7.0	26.5
445	IGO 1116	89	18.7	21.0	24.8	1.80	34.0	32.1	6.7	30.5
446	IGO 2118	181	33.1	18.3	42.4	2.34	40.2	37.2	6.7	27.1
447	IGO 1094	149	30.6	20.5	26.5	1.83	29.2	31.9	6.1	24.4
448	IGO 1109	78	16.7	21.4	25.0	1.73	34.0	33.6	6.1	19.4
449	IGO 1324	81	12.2	15.1	15.0	1.12	37.6	36.9	7.3	29.1
450	IGO 1198	267	49.8	18.7	18.2	1.83	35.5	33.6	6.7	26.5
451	IGO 1120	241	43.6	18.1	34.5	2.45	56.3	37.8	6.9	26.5

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch10	ch11	ch12	ch13	ch14	ch15	ch16	ch17	ch18
452	IGO 671	151	30.4	20.1	30.6	2.12	52.1	37.4	5.8	24.1
453	IGO 728	162	28.8	17.8	26.5	1.94	50.7	25.6	5.0	21.4
454	IGO 903	258	28.4	11.0	40.0	2.45	49.3	34.2	5.8	25.1
455	IGO 1212	107	17.4	16.3	17.2	1.55	48.4	40.3	6.3	29.8
456	IGO 1328	136	29.2	21.5	35.8	2.23	54.9	35.5	5.8	23.1

ch 10 = Green Fodder Yield / plant (gm)

ch 12 = Dry Matter (%)

ch 14 = Flag Leaf Width (cm)

ch 16 = Axis Length (cm)

ch 18 = Spikelets/ Panicle

ch 11 = Dry Fodder Yield / plant (gm)

ch 13 = Flag Leaf Length (cm)

ch 15 = Peduncle Length (cm)

ch 17 = Axis Branch Number

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch19	ch20	ch21	ch22	ch23	ch24	ch25	ch26	ch27
1	PI 486164	84	2.1	0.7	23.1	1.6	0.29	152	90	23.4
2	PI 497696	90	2.2	0.7	17.7	1.5	0.23	135	78	18.9
3	PI 497880	75	2.3	0.7	15.3	1.5	0.23	135	78	25.8
4	PI 497799	76	2.3	0.6	16.6	1.6	0.26	117	62	12.6
5	PI 497790	93	2.8	0.8	18.9	1.7	0.29	173	66	24.2
6	PI 497874	132	2.2	0.6	17.7	1.2	0.18	177	83	20.8
7	PI 497725	68	3.1	0.8	38.4	1.8	0.32	89	66	18.2
8	PI 466869	126	2.7	0.7	19.7	1.5	0.18	195	86	20.8
9	PI 497724	69	2.6	0.7	18.9	1.5	0.26	177	80	21.3
10	PI 497778	117	2.4	0.7	16.2	1.8	0.19	219	70	25.4
11	PI 497777	88	2.2	0.8	17.1	1.3	0.29	190	95	25.8
12	PI 497708	42	2.1	0.8	32.3	1.5	0.35	157	76	19.6
13	PI 497821	69	2.1	0.8	23.4	1.3	0.29	287	80	30.8
14	PI 498912	128	2.0	0.7	20.0	1.5	0.23	174	78	17.6
15	PI 497860	103	2.3	0.7	23.9	1.8	0.29	197	76	24.6
16	PI 497736	73	2.5	0.6	16.3	1.8	0.19	115	82	11.7
17	PI 476810	56	2.7	0.8	35.0	1.8	0.35	152	51	16.8
18	PI 497809	56	2.2	0.7	17.9	1.4	0.29	187	68	20.8
19	PI 497703	70	2.4	0.6	28.1	1.4	0.29	130	54	12.8
20	PI 471907	69	2.4	0.7	33.1	1.4	0.39	128	43	14.6
21	PI 497912	69	2.2	0.7	18.5	1.4	0.32	104	70	11.9
22	PI 497648	64	2.9	0.9	35.8	1.7	0.32	185	56	23.1
23	PI 497706	59	3.1	0.8	30.1	1.8	0.35	250	63	27.4
24	PI 486862	47	2.5	0.7	26.1	1.4	0.35	140	110	16.4
25	PI 486863	42	2.4	0.7	33.0	1.6	0.32	104	99	12.1
26	PI 497818	86	2.3	0.6	19.6	1.4	0.23	121	68	16.3
27	PI 497726	79	2.5	0.6	19.4	1.2	0.18	126	53	13.1
28	PI 497858	133	2.6	0.7	25.2	1.5	0.23	135	66	17.4
29	PI 497730	93	2.2	0.6	15.2	1.2	0.18	222	89	20.4
30	PI 466896	150	2.6	0.6	20.3	1.3	0.23	134	64	17.2
31	PI 497806	124	2.4	0.7	26.0	1.3	0.26	150	72	19.9
32	PI 497155	85	2.2	0.6	14.5	1.4	0.23	140	106	18.1
33	PI 466870	135	2.6	0.6	23.2	1.2	0.21	141	47	19.8
34	PI 497686	130	2.5	0.6	23.0	1.4	0.23	139	79	19.7
35	PI 486134	89	2.6	0.7	15.7	1.6	0.32	191	72	26.3

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch19	ch20	ch21	ch22	ch23	ch24	ch25	ch26	ch27
36	PI 466865	68	2.2	0.7	26.4	1.2	0.23	166	79	24.7
37	PI 497695	89	2.0	0.6	18.2	1.2	0.26	121	51	13.0
38	PI 497697	58	2.2	0.8	24.5	1.0	0.26	124	109	18.4
39	PI 466868	49	2.2	0.6	18.7	1.4	0.26	90	101	15.1
40	PI 497752	62	2.4	0.5	10.9	1.1	0.21	89	37	17.8
41	PI 466889	75	2.9	0.7	17.5	1.6	0.26	146	86	22.5
42	PI 497709	140	2.5	0.7	23.8	1.2	0.23	113	33	13.9
43	PI 497694	79	2.4	0.7	19.6	1.2	0.32	158	79	24.7
44	PI 469106	70	3.7	1.0	18.6	1.5	0.26	125	71	17.4
45	PI 466892	92	2.7	0.7	45.0	2.0	0.32	247	37	31.0
46	PI 466888	96	2.5	0.7	19.8	1.3	0.18	145	72	21.2
47	PI 497807	96	2.8	0.8	26.0	1.5	0.26	172	40	25.0
48	PI 497827	86	2.4	0.7	16.8	1.6	0.21	171	58	22.8
49	PI 466871	105	2.4	0.6	16.2	1.2	0.21	131	53	18.6
50	PI 466867	87	2.1	0.7	21.2	1.3	0.23	214	97	28.6
51	PI 477687	99	2.6	0.7	21.3	1.3	0.19	172	92	23.3
52	PI 431206	68	2.2	0.5	25.6	1.7	0.25	149	88	23.3
53	PI 497905	36	2.5	0.7	27.4	1.4	0.30	94	144	14.2
54	PI 497762	88	2.3	0.6	19.5	1.1	0.19	191	94	25.5
55	PI 497820	79	2.5	0.5	16.3	1.5	0.19	132	107	18.9
56	CI 9216	59	2.3	0.6	29.2	1.3	0.28	113	155	27.5
57	CI 9372	57	1.9	0.6	24.6	1.2	0.30	215	110	40.5
58	CI 7912	31	2.7	0.9	37.2	1.6	0.30	239	129	35.1
59	CI 9400	59	2.3	0.6	17.9	1.2	0.28	222	126	35.9
60	CI 9342	63	2.7	0.8	22.7	1.6	0.28	130	161	20.9
61	CI 9261	58	2.4	0.6	21.7	1.2	0.22	112	82	26.0
62	CI 9365	59	2.5	0.6	22.6	1.5	0.30	135	68	19.7
63	CI 9136	51	2.4	0.5	14.2	1.3	0.25	171	137	22.4
64	CI 8311	104	2.5	0.6	21.5	1.2	0.19	160	122	25.2
65	CI 9386	62	2.2	0.6	23.3	1.3	0.25	131	79	18.6
66	CI 9220	131	2.6	0.6	20.6	1.4	0.25	166	126	23.4
67	CI 9771	74	2.2	0.5	11.7	1.3	0.25	137	80	19.8
68	CI 9406	96	2.6	0.6	20.5	1.4	0.22	161	97	22.9
69	CI 9238	112	2.3	0.6	20.6	1.4	0.19	128	88	16.9
70	CI 9368	76	2.9	0.7	28.1	1.4	0.28	188	76	25.8



## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch19	ch20	ch21	ch22	ch23	ch24	ch25	ch26	ch27
71	CI 5275	57	2.3	0.7	21.5	1.3	0.25	136	94	29.1
72	CI 9810	107	2.5	0.6	20.9	1.3	0.22	54	43	6.9
73	CI 8916	70	2.2	0.5	16.2	1.4	0.22	165	113	32.6
74	CI 9166	99	2.6	0.6	18.5	1.3	0.19	119	62	28.8
75	CI 8449	47	3.5	0.8	36.9	1.4	0.30	137	89	17.2
76	CI 9322	112	2.2	0.6	23.4	1.4	0.25	215	90	27.1
77	CI 9333	50	3.0	0.7	17.1	1.4	0.22	104	61	14.1
78	CI 9344	121	2.4	0.6	24.8	1.5	0.19	94	97	11.9
79	CI 8349	47	2.6	0.6	31.0	1.3	0.28	203	84	29.7
80	CI 9355	39	2.2	0.6	29.6	1.3	0.30	87	149	12.8
81	CI 9308	59	3.4	0.9	42.5	1.8	0.30	163	94	16.6
82	CI 8183	50	1.9	0.6	16.4	1.3	0.25	305	150	46.6
83	CI 9209	46	2.5	0.7	31.1	1.3	0.28	112	143	18.8
84	CI 9260	118	2.6	0.6	23.3	1.3	0.22	82	70	15.0
85	CI 9306	55	2.2	0.7	27.4	1.5	0.22	120	130	25.7
86	CI 4836	76	2.4	0.6	25.8	1.4	0.19	78	88	19.8
87	CI 9136	149	2.2	0.8	27.2	1.1	0.22	140	87	23.3
88	CI 8113	57	2.2	0.6	32.3	1.0	0.28	124	103	14.1
89	CI 9310	55	2.8	0.7	26.1	1.4	0.33	114	98	19.1
90	CI 8319	63	2.1	0.6	24.9	0.9	0.22	76	148	12.1
91	CI 8313	52	2.5	0.7	30.7	1.0	0.25	99	81	16.5
92	CI 9367	95	2.5	0.7	21.5	1.3	0.19	60	63	10.8
93	CI 9327	74	2.4	0.6	23.3	1.4	0.22	75	81	21.1
94	CI 9329	56	2.1	0.6	22.1	1.3	0.22	89	66	15.0
95	CI 4913	65	2.5	0.7	33.3	1.1	0.25	94	126	14.1
96	CI 9330	49	2.0	0.6	31.0	1.0	0.25	82	86	16.4
97	CI 9358	104	2.2	0.7	40.0	1.2	0.30	80	90	18.0
98	CI 9340	45	2.1	0.6	20.1	0.9	0.22	108	87	16.1
99	CI 9356	46	2.7	0.6	12.9	1.4	0.19	80	146	15.1
100	CI 9268	109	2.8	0.6	26.3	1.2	0.21	77	113	16.8
101	CI 9469	67	2.5	0.5	15.4	1.5	0.18	174	98	21.1
102	CI 9198	50	2.7	0.6	32.7	1.5	0.23	271	91	33.2
103	CI 9303	69	2.6	0.7	29.7	1.2	0.26	247	132	40.0
104	CI 9239	114	2.5	0.7	23.4	1.3	0.23	160	117	26.6
105	CI 9263	48	3.0	0.7	30.2	1.4	0.23	376	88	50.2

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch19	ch20	ch21	ch22	ch23	ch24	ch25	ch26	ch27
106	CI 9265	106	2.2	0.6	14.7	1.4	0.21	516	102	59.3
107	CI 7624	61	2.6	0.7	25.9	1.2	0.23	346	85	40.7
108	CI 9357	24	2.3	0.6	23.0	1.4	0.23	233	155	35.0
109	CI 9354	53	2.7	0.7	33.8	1.4	0.23	387	132	41.0
110	CI 9316	98	2.2	0.6	20.1	1.5	0.21	413	153	52.9
111	CI 9328	77	1.9	0.5	14.2	1.1	0.23	403	157	51.2
112	CI 9386	111	2.0	0.6	31.6	1.1	0.26	190	124	49.9
113	CI 8450	43	2.7	0.7	35.2	1.4	0.23	277	93	35.8
114	CI 9259	39	2.6	0.6	34.1	1.4	0.25	253	113	29.8
115	CI 9403	84	2.4	0.7	26.8	1.2	0.26	330	117	47.4
116	CI 8315	71	2.3	0.6	24.3	1.2	0.21	308	120	36.5
117	CI 9376	112	2.1	0.5	10.0	1.2	0.21	223	121	34.8
118	CI 8850	95	2.9	0.7	25.6	1.5	0.26	544	160	52.2
119	CI 9416	88	2.3	0.6	40.9	1.1	0.23	332	124	37.0
120	CI 9411	74	3.6	0.7	31.6	1.6	0.32	312	99	35.0
121	CI 9375	154	2.1	0.7	33.6	1.2	0.21	340	81	44.2
122	CI 9413	84	2.4	0.7	47.6	1.3	0.32	528	134	67.5
123	CI 9371	79	2.4	0.7	31.7	1.1	0.23	882	149	87.1
124	CI 9422	115	2.4	0.6	19.2	1.4	0.21	368	132	39.5
125	CI 9345	103	2.7	0.7	27.1	1.4	0.26	463	138	55.1
126	CI 9397	88	2.3	0.8	30.6	1.0	0.26	141	85	15.9
127	CI 9623	113	2.9	0.7	23.9	1.3	0.23	161	85	18.8
128	CI 9387	82	2.6	0.8	34.6	1.4	0.32	39	96	12.7
129	CI 9315	75	2.8	0.7	22.9	1.3	0.19	65	73	8.7
130	CI 9377	57	2.8	0.8	24.5	1.3	0.26	45	56	9.6
131	CI 9400	78	2.6	0.6	19.0	1.4	0.23	70	81	8.5
132	CI 9343	80	2.9	0.7	11.1	1.4	0.26	48	61	7.4
133	CI 9330	119	2.2	0.7	27.3	1.2	0.26	48	77	7.8
134	CI 9370	64	2.7	0.8	31.6	1.2	0.29	76	76	9.4
135	CI 9350	102	2.5	0.6	21.4	1.6	0.26	62	80	8.5
136	CI 9422	107	2.7	0.7	21.0	1.5	0.23	122	64	12.8
137	BGP 48	64	2.8	0.8	35.7	1.2	0.32	106	72	12.2
138	BGP 33	102	2.3	0.9	33.1	1.3	0.26	102	92	11.2
139	BGP 37	55	2.9	0.9	34.4	1.2	0.32	109	41	12.8
140	BGP 36	108	2.6	0.9	30.7	1.2	0.32	105	59	12.0

S.No.	Acc.no.	ch19	ch20	ch21	ch22	ch23	ch24	ch25	ch26	ch27
141	BGP 13	87	2.2	0.9	28.6	1.3	0.32	66	39	7.3
142	BGP 4	84	2.5	0.9	31.6	1.2	0.26	79	51	12.5
143	BGP 59	114	2.5	0.7	27.2	1.4	0.26	78	36	9.9
144	BGP 64	66	2.5	0.8	33.7	1.3	0.26	205	72	20.0
145	BGP 96	72	2.6	1.0	51.9	1.4	0.39	86	49	12.5
146	BGP 42	70	2.3	0.9	32.2	1.2	0.29	121	82	16.0
147	BGP 41	86	2.3	0.8	46.3	1.1	0.42	84	51	11.7
148	BGP 38	80	2.5	0.7	34.2	1.4	0.35	122	50	13.3
149	BGP 12	91	3.3	0.9	38.0	1.5	0.26	117	72	12.8
150	BGP 9	61	2.3	0.8	27.4	1.2	0.30	148	72	16.9
151	BGP 75	74	2.7	0.9	29.6	1.5	0.27	111	61	14.9
152	BGP 71	98	2.5	0.9	31.1	1.5	0.24	46	24	6.7
153	BGP 63	134	3.0	0.8	35.2	1.5	0.30	82	53	11.3
154	BGP 87	35	2.4	0.7	30.8	1.3	0.33	95	59	12.8
155	BGP 58	85	2.7	0.7	24.8	1.4	0.27	48	42	15.6
156	BGP 95	58	2.2	0.7	24.8	1.3	0.24	123	36	17.7
157	BGP 35	68	2.4	0.7	27.6	1.5	0.30	79	67	15.3
158	BGP 94	80	2.6	0.8	38.8	1.2	0.33	78	29	14.5
159	BGP 10	65	2.3	0.8	31.8	1.1	0.27	88	48	14.3
160	BGP 40	68	2.4	0.7	20.0	1.2	0.30	69	47	9.7
161	BGP 39	91	2.1	0.7	24.3	1.2	0.27	120	62	14.6
162	BGP 44	74	2.4	0.7	21.6	1.3	0.21	113	46	13.8
163	BGP 68	96	2.1	0.7	19.2	1.3	0.21	71	38	10.4
164	BGP 65	72	2.5	0.8	63.2	1.2	0.39	75	40	9.7
165	BGP 79	119	2.6	0.7	30.5	1.4	0.24	78	50	17.7
166	BGP 34	97	2.2	0.7	30.1	1.4	0.24	114	56	14.1
167	BGP 23	73	2.4	0.7	25.7	1.5	0.22	157	39	16.4
168	BGP 55	92	2.2	0.7	26.0	1.3	0.30	128	50	14.6
169	BGP 20	107	2.4	0.6	23.8	1.2	0.24	79	53	9.2
170	BGP 91	63	2.5	0.7	26.0	1.5	0.21	125	56	14.3
171	BGP 21	123	2.4	0.7	15.0	1.4	0.24	152	62	17.3
172	BGP 1	92	3.2	0.8	24.6	1.3	0.24	161	48	19.2
173	BGP 60	90	2.3	0.7	27.8	1.3	0.30	219	59	27.8
174	BGP 51	137	2.4	0.6	22.1	1.4	0.27	120	60	15.0
175	BGP 66	67	3.3	1.0	37.0	1.8	0.33	113	72	15.8

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch19	ch20	ch21	ch22	ch23	ch24	ch25	ch26	ch27
176	BGP 85	89	2.6	0.7	24.1	1.4	0.21	154	62	23.9
177	BGP 62	51	2.7	0.9	38.6	1.7	0.27	164	79	26.5
178	BGP 50	69	2.3	0.8	26.5	1.3	0.24	157	88	36.9
179	BGP 82	71	2.2	0.7	26.5	1.3	0.24	159	83	34.2
180	BGP 69	67	2.3	0.8	31.3	1.5	0.27	119	79	20.0
181	BGP 86	49	2.5	0.7	45.9	1.5	0.30	128	69	18.1
182	BGP 88	57	2.2	0.9	42.2	1.4	0.27	138	92	24.6
183	BGP 17	61	2.1	0.7	18.7	1.4	0.21	79	42	12.9
184	BGP 92	58	2.4	0.7	45.8	1.4	0.30	227	81	34.2
185	BGP 73	59	2.6	0.9	43.2	1.6	0.27	186	88	30.4
186	BGO 11	42	2.6	0.8	52.2	1.8	0.33	176	106	32.0
187	BGP 70	38	2.3	0.7	29.2	1.6	0.30	154	109	32.7
188	BGP 74	56	2.5	0.7	27.0	1.3	0.21	146	95	28.4
189	BGP 15	37	2.7	0.8	26.8	1.4	0.24	169	106	28.4
190	BGP 3	32	2.6	0.7	26.3	1.4	0.24	282	92	39.7
191	BGP 19	71	2.1	0.7	23.2	1.3	0.18	162	106	31.0
192	BGP 16	66	2.6	0.8	30.9	1.7	0.30	225	70	38.1
193	BGP 67	70	2.5	0.7	27.1	1.3	0.24	88	57	14.5
194	BGP 98	77	2.3	0.7	24.5	1.7	0.21	93	53	15.5
195	BGP 47	61	2.6	0.7	28.1	1.6	0.27	102	69	15.6
196	BGP 83	70	2.4	0.8	31.7	1.5	0.30	58	71	14.7
197	BGP 97	51	2.5	0.7	25.1	1.5	0.27	159	104	28.6
198	BGP 93	50	2.0	0.7	26.3	1.2	0.27	68	115	12.7
199	BGP 46	65	2.8	0.8	25.6	1.3	0.21	159	130	25.5
200	BGP 14	55	3.7	1.0	25.6	1.9	0.28	85	70	12.9
201	BGP 18	60	2.9	0.9	37.2	1.9	0.32	287	71	60.1
202	BGP 76	65	2.8	0.8	32.1	1.9	0.28	167	83	41.7
203	BGP 89	49	2.8	0.8	37.3	1.5	0.32	313	111	65.0
204	BGP 81	50	2.7	0.8	34.0	2.0	0.40	243	66	52.4
205	BGP 61	56	3.2	0.8	40.5	1.8	0.36	238	62	56.3
206	PA 2672	70	3.5	0.8	42.0	1.8	0.32	258	91	66.0
207	PA 2857	55	2.8	0.8	36.5	1.8	0.28	217	78	47.4
208	PA 3562	43	3.3	0.9	47.7	1.7	0.32	421	111	82.4
209	PA 3498	55	2.8	0.8	31.1	1.5	0.28	256	89	55.3
210	PA 2673	47	2.8	0.8	32.7	1.4	0.32	256	119	75.7

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch19	ch20	ch21	ch22	ch23	ch24	ch25	ch26	ch27
211	PA 2840	115	3.2	0.7	22.0	1.9	0.28	309	70	62.5
212	PA 3579	34	2.7	0.8	45.2	1.5	0.44	433	161	86.2
213	PA 2838	52	2.8	0.7	36.3	1.8	0.28	218	76	55.3
214	PA 2828	74	3.4	0.9	39.9	2.1	0.40	260	82	62.3
215	PA 2822	34	3.1	0.8	40.5	1.5	0.24	502	80	114.2
216	PA 2685	67	3.0	0.8	38.2	1.7	0.24	365	117	98.6
217	PA 2662	59	3.9	1.0	45.8	1.8	0.40	327	71	70.6
218	PA 2854	49	2.9	0.7	25.0	1.9	0.24	292	95	79.5
219	PA 2673	100	2.9	0.7	26.6	1.8	0.24	326	93	74.7
220	PA 2699	60	2.8	0.9	36.5	1.6	0.40	280	84	52.2
221	PA 2704	68	2.5	0.7	29.4	1.7	0.28	320	78	64.4
222	PA 2682	81	2.8	0.8	31.6	1.5	0.28	371	51	68.0
223	PA 2668	53	2.7	0.8	31.1	1.4	0.28	430	78	124.5
224	PA 2829	84	3.5	0.8	36.5	1.9	0.28	253	62	53.4
225	PA 2826	62	3.5	0.8	41.3	2.4	0.36	346	84	93.9
226	PA 2823	76	2.5	0.8	30.9	1.2	0.28	221	68	47.4
227	PA 2849	66	3.0	0.8	30.2	1.3	0.28	101	42	13.5
228	PA 2878	37	2.4	0.7	30.3	1.2	0.28	99	46	12.4
229	PA 2853	98	2.8	0.7	24.0	1.4	0.24	133	79	20.6
230	PA 2802	56	2.9	0.8	23.5	1.1	0.24	183	50	21.5
231	PA 2803	42	2.8	0.7	29.1	1.3	0.28	120	67	14.3
232	PA 2809	70	2.5	0.6	25.0	1.3	0.24	122	50	14.7
233	PA 2714	86	2.5	0.5	18.7	1.0	0.21	102	66	12.2
234	PA 2780	51	2.8	0.8	27.8	1.3	0.28	86	49	10.5
235	PA 2832	70	2.8	0.8	39.9	1.4	0.28	79	79	12.4
236	PA 2821	76	3.0	0.7	29.7	1.4	0.31	209	67	27.0
237	PA 2829	65	2.2	0.7	20.4	1.2	0.24	114	66	12.2
238	PA 2823	59	2.8	0.7	29.1	1.3	0.31	97	67	13.9
239	PA 2824	72	3.1	0.8	26.5	1.2	0.28	161	92	18.5
240	PA 2812	73	2.4	0.6	19.5	1.2	0.24	155	92	17.3
241	PA 2828	40	2.5	0.6	25.9	1.3	0.28	145	138	19.5
242	PA 2827	76	2.7	0.8	27.7	1.2	0.28	171	91	20.9
243	PA 2674	49	2.3	0.8	24.7	1.3	0.24	148	67	19.8
244	PA 2830	39	2.7	0.7	30.1	1.2	0.28	106	70	15.4
245	PA 2877	79	2.2	0.6	23.7	1.1	0.24	249	106	37.4

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch19	ch20	ch21	ch22	ch23	ch24	ch25	ch26	ch27
246	PA 2807	53	2.4	0.7	23.8	1.1	0.24	177	71	24.0
247	PA 2885	65	2.3	0.6	26.5	1.1	0.26	140	65	17.3
248	EC 79873	81	2.9	0.9	34.9	1.6	0.35	200	115	24.8
249	EC 108656	84	2.7	0.6	21.2	1.4	0.21	244	78	29.8
250	EC 61704	72	3.2	0.9	32.7	1.5	0.35	266	63	18.9
251	EC 57332	60	3.5	1.0	38.3	1.5	0.28	242	79	28.8
252	EC 107892	106	3.5	0.9	33.9	1.5	0.28	131	72	18.5
253	EC 130643	87	2.6	0.9	40.0	1.2	0.28	139	66	26.1
254	EC 57662	71	3.7	1.1	46.2	1.7	0.38	62	39	12.0
255	EC 108439	67	3.6	0.9	29.7	1.7	0.35	77	41	13.1
256	EC 16929	49	3.4	1.0	37.1	1.6	0.28	114	37	22.3
257	EC 107534	70	3.2	0.8	36.6	1.5	0.31	100	38	13.4
258	EC 102331	62	3.4	0.9	46.5	1.7	0.35	81	38	16.3
259	EC 108456	155	2.6	0.7	23.4	1.6	0.21	56	32	12.3
260	EC 97525	59	3.4	1.0	44.8	1.2	0.38	39	27	7.7
261	EC 31058	81	3.4	0.9	38.7	1.5	0.28	92	42	17.0
262	EC 107021	96	3.3	0.9	29.9	1.4	0.31	83	47	14.6
263	EC 35151	82	3.1	0.8	33.1	1.2	0.24	110	45	26.6
264	EC 35216	80	3.3	0.9	26.6	1.7	0.28	100	35	25.9
265	EC 96583	80	3.4	0.9	32.9	1.6	0.24	62	29	12.7
266	EC 97537	74	3.4	0.9	43.1	1.5	0.28	73	36	13.2
267	EC 52807	86	3.6	1.0	38.9	1.6	0.28	88	32	15.2
268	EC 10483	69	3.6	0.9	40.9	1.6	0.28	98	35	15.3
269	EC 34576	69	3.2	1.0	42.6	1.6	0.31	126	42	22.5
270	EC 196071	50	3.5	1.0	43.3	1.8	0.31	89	37	17.0
271	EC 43555	68	3.6	0.9	37.5	1.6	0.28	62	33	11.5
272	EC 35753	81	3.6	0.9	40.9	1.6	0.38	113	40	20.1
273	EC 107624	74	3.4	0.9	40.4	1.7	0.35	72	34	12.8
274	EC 104492	72	3.3	0.9	42.1	1.6	0.31	71	40	13.1
275	EC 86444	82	3.1	0.8	40.9	1.6	0.28	111	34	19.2
276	EC 97248	69	2.5	0.8	42.0	1.6	0.36	96	32	16.0
277	EC 102011	85	2.5	0.9	30.4	1.4	0.25	181	57	23.8
278	EC 102353	58	3.0	0.9	41.4	1.5	0.39	151	46	18.6
279	EC 16931	65	3.1	0.9	29.6	1.5	0.25	191	85	26.7
280	EC 54837	77	3.2	0.8	38.9	1.5	0.30	203	77	29.1

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch19	ch20	ch21	ch22	ch23	ch24	ch25	ch26	ch27
281	EC 108437	59	3.3	0.9	44.0	1.6	0.36	180	56	24.4
282	EC 57651	73	3.2	0.9	36.7	1.6	0.29	269	49	20.6
283	EC 178960	93	3.1	0.9	34.3	1.5	0.29	114	71	16.0
284	EC 104006	74	3.5	1.1	36.8	1.5	0.29	174	47	24.8
285	EC 102643	79	3.3	0.9	35.3	1.5	0.26	183	46	26.0
286	EC 10448	84	2.5	0.7	40.6	1.5	0.21	151	93	20.2
287	EC 97520	95	2.8	0.7	36.9	1.5	0.36	210	66	31.3
288	EC 82355	133	2.5	0.6	22.3	1.4	0.21	164	55	21.1
289	EC 96576	96	2.3	0.7	19.9	1.3	0.21	153	55	21.6
290	EC 107324	105	2.1	0.7	23.5	1.3	0.27	184	65	24.3
291	EC 466859	104	2.3	0.6	23.8	1.4	0.21	169	43	27.5
292	EC 130748	131	2.3	0.6	22.6	1.5	0.25	116	52	17.5
293	EC 107221	63	2.7	0.9	41.7	1.5	0.29	172	51	24.4
294	EC 109221	67	3.4	0.8	36.7	1.6	0.29	183	47	25.8
295	EC 102348	67	3.1	1.0	40.5	1.6	0.36	69	54	12.4
296	EC 108586	81	2.4	0.5	35.6	1.6	0.37	119	33	17.1
297	EC 133510	65	3.0	0.7	30.1	1.4	0.25	91	50	22.2
298	EC 100758	69	3.4	1.0	38.2	1.6	0.29	194	31	28.9
299	EC 57661	90	3.0	0.9	33.3	1.5	0.29	82	36	12.3
300	EC 131050	78	3.1	0.8	36.5	1.7	0.25	107	41	12.4
301	EC 107541	64	3.3	0.7	43.2	1.5	0.32	114	68	17.6
302	EC 54836	61	3.3	0.8	42.7	1.5	0.32	114	72	17.8
303	EC 108124	69	3.5	0.8	47.1	1.3	0.36	121	67	18.4
304	EC 29049	62	3.3	0.7	42.5	1.4	0.36	186	85	29.8
305	EC 16695	163	2.1	0.5	18.4	1.3	0.21	159	70	23.3
306	EC 178960	71	3.5	0.8	33.9	1.5	0.29	155	110	21.1
307	EC 58531	88	3.1	0.6	34.0	1.4	0.29	247	96	31.3
308	EC 9884	78	2.6	0.5	38.4	1.5	0.29	160	82	20.5
309	EC 9269	67	2.8	0.6	43.9	1.6	0.32	127	67	15.9
310	EC 15969	84	3.6	0.7	40.0	1.9	0.29	209	100	30.7
311	EC 16967	51	3.1	0.7	43.4	1.6	0.39	220	82	31.3
312	EC 9970	54	3.3	0.7	46.2	1.5	0.36	101	53	13.4
313	EC 86444	46	2.8	0.6	34.9	1.4	0.32	125	66	21.7
314	EC 107022	65	3.1	0.6	33.1	1.7	0.32	190	110	23.1
315	EC 4438	84	2.6	0.6	32.3	1.4	0.29	317	75	40.3

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch19	ch20	ch21	ch22	ch23	ch24	ch25	ch26	ch27
316	EC 28815	60	3.1	0.7	41.2	1.7	0.36	155	86	21.0
317	EC 310507	68	3.4	0.7	35.9	1.6	0.32	183	71	20.9
318	EC 28804	74	3.3	0.7	35.1	1.6	0.32	302	99	36.6
319	EC 104472	80	3.3	0.7	47.9	1.7	0.36	217	81	31.3
320	EC 70924	75	3.1	0.7	40.4	1.7	0.29	175	86	21.5
321	EC 4721	134	2.7	0.6	23.4	1.4	0.25	304	79	38.2
322	EC 96548	66	2.5	0.6	14.2	1.1	0.21	133	57	16.2
323	EC 108602	55	3.1	0.7	41.7	1.3	0.32	76	86	21.0
324	EC 130646	80	2.6	0.7	30.2	1.2	0.25	185	113	23.8
325	EC 108648	50	3.2	0.7	45.1	1.2	0.36	152	78	20.1
326	EC 159606	152	2.8	0.8	28.2	1.5	0.21	165	116	23.8
327	EC 5681	106	3.1	0.8	30.9	1.6	0.29	107	73	18.0
328	EC 182972	65	3.2	0.8	35.2	1.6	0.36	130	81	22.0
329	EC 96592	78	3.4	0.8	32.8	1.6	0.25	171	65	28.4
330	EC 108620	86	2.9	0.9	25.8	1.5	0.29	167	79	27.6
331	EC 313801	80	3.0	0.8	34.1	1.4	0.29	135	96	23.0
332	EC 159073	64	2.9	0.9	37.8	1.4	0.32	334	67	12.4
333	EC 131290	85	2.7	0.9	27.3	1.2	0.25	193	116	27.3
334	EC 1249	68	3.2	0.9	33.8	1.5	0.32	281	165	41.8
335	EC 179872	95	3.7	1.0	40.4	1.7	0.36	166	104	25.6
336	EC 112034	92	3.5	0.8	38.1	1.6	0.39	147	80	25.3
337	EC 96540	90	3.3	0.8	33.2	1.5	0.34	254	85	39.4
338	EC 182972	70	3.3	0.9	35.9	1.6	0.36	180	82	28.8
339	EC 117069	68	3.4	1.0	36.0	1.6	0.34	208	85	33.3
340	EC 310506	78	3.1	0.8	31.0	1.6	0.29	202	105	29.5
341	EC 96583	83	3.3	0.8	33.8	1.7	0.32	206	84	40.9
342	EC 24900	75	3.0	0.9	34.8	1.5	0.31	232	104	37.3
343	EC 140599	79	3.3	0.9	34.5	1.5	0.29	384	91	54.2
344	EC 109282	79	2.8	0.9	34.9	1.2	0.29	304	95	51.2
345	EC 310504	86	2.6	0.8	21.3	1.4	0.25	252	94	46.8
346	EC 310509	94	2.9	0.8	35.1	1.6	0.29	107	80	18.7
347	EC 109232	73	3.1	0.8	35.7	1.5	0.32	282	112	49.8
348	EC 107017	98	2.9	0.9	76.0	1.5	0.36	168	72	41.2
349	EC 107534	64	3.0	0.9	44.8	1.4	0.36	182	48	27.3
350	EC 131313	51	3.1	0.9	40.2	1.3	0.32	162	74	32.2



## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch19	ch20	ch21	ch22	ch23	ch24	ch25	ch26	ch27
351	EC 16183	72	2.9	0.8	34.9	1.4	0.25	128	76	24.4
352	EC 131306	63	2.4	0.7	31.9	1.5	0.29	271	103	30.3
353	EC 108656	58	3.1	0.8	41.5	1.4	0.32	261	104	31.4
354	EC 109667	95	2.9	0.7	40.2	1.4	0.29	131	95	15.7
355	EC 108451	102	2.4	0.6	23.2	1.2	0.25	159	65	20.7
356	EC 117406	90	2.6	0.7	25.1	1.2	0.14	154	58	38.0
357	EC 108603	71	2.4	0.8	27.7	1.2	0.29	184	77	24.3
358	EC 159070	86	2.4	0.7	30.0	1.4	0.29	69	36	11.4
359	EC 310506	107	2.4	0.7	28.5	1.5	0.32	97	32	14.8
360	EC 179824	82	2.6	0.6	23.4	1.2	0.25	75	45	13.1
361	EC 162643	67	3.1	0.9	44.7	1.4	0.39	336	64	39.7
362	EC 131532	84	2.3	0.7	32.9	1.4	0.36	286	61	24.0
363	EC 22023	62	3.2	0.8	54.2	1.3	0.36	156	61	23.1
364	EC 109348	53	3.1	0.8	52.5	1.4	0.36	149	47	22.2
365	EC 10847	58	2.5	0.7	31.0	1.1	0.25	134	61	19.0
366	EC 130648	96	3.0	0.8	35.4	1.5	0.29	86	59	12.6
367	EC 140899	71	3.1	0.8	43.4	1.4	0.29	137	77	31.3
368	EC 130503	90	2.2	0.8	27.9	1.3	0.21	106	57	13.8
369	EC 130646	67	3.0	0.8	44.3	1.4	0.36	112	74	14.8
370	EC 133316	88	2.9	0.8	38.7	1.5	0.25	74	30	10.6
371	EC 57248	125	3.0	0.7	36.1	1.4	0.29	132	38	20.2
372	EC 183173	86	2.9	0.8	36.3	1.5	0.32	214	86	44.3
373	EC 159069	59	3.1	0.8	37.0	1.4	0.32	191	74	24.0
374	EC 16787	110	2.6	0.7	29.2	1.5	0.29	187	61	24.9
375	EC 104599	63	3.0	0.8	38.6	1.5	0.29	214	83	26.3
376	EC 131313	81	2.9	0.7	37.9	1.5	0.32	191	77	22.9
377	IGO 562	70	2.6	0.7	32.5	1.1	0.23	198	50	44.4
378	IGO 14	110	2.3	0.7	23.0	1.2	0.23	105	62	19.2
379	IGO 132	72	3.0	0.9	36.4	1.4	0.29	109	59	20.1
380	IGO 74	70	2.9	0.7	27.6	1.6	0.23	143	70	25.0
381	IGO 242	77	2.4	0.8	22.8	1.3	0.23	223	95	43.5
382	IGO 543	30	2.7	0.8	37.0	1.6	0.29	100	97	21.6
383	IGO 570	84	3.0	0.9	49.8	1.4	0.32	116	91	35.6
384	IGO 536	61	2.7	0.7	26.4	1.3	0.19	150	69	28.3
385	IGO 725	65	2.3	0.7	31.1	1.0	0.19	253	98	36.5

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch19	ch20	ch21	ch22	ch23	ch24	ch25	ch26	ch27
386	IGO 374	57	2.7	0.7	27.1	1.4	0.23	85	60	23.6
387	IGO 371	64	2.5	0.8	28.8	1.3	0.32	145	59	28.1
388	IGO 586	55	2.7	0.8	30.1	1.4	0.26	99	49	33.1
389	IGO 1096	72	2.4	0.7	23.8	1.2	0.26	77	63	16.2
390	IGO 210	76	2.6	0.8	28.6	1.3	0.26	54	37	12.5
391	IGO 474	68	2.8	0.7	29.1	1.3	0.27	85	35	19.7
392	IGO 460	70	2.5	0.7	29.8	1.5	0.29	49	39	11.7
393	IGO 592	78	2.4	0.7	23.7	1.3	0.19	108	35	20.8
394	IGO 510	81	2.2	0.7	26.9	1.1	0.23	169	90	27.7
395	IGO 377	67	2.3	0.7	22.7	1.3	0.23	244	97	44.0
396	IGO 52	107	2.4	0.7	23.9	1.3	0.23	174	82	33.8
397	IGO 262	67	2.5	0.7	28.6	1.4	0.26	239	73	40.3
398	IGO 489	79	2.3	0.8	24.7	1.3	0.26	187	58	37.5
399	IGO 506	75	2.4	0.7	26.5	1.4	0.29	105	45	18.3
400	IGO 266	63	2.4	0.7	25.0	1.4	0.23	94	64	24.6
401	IGO 571	82	2.3	0.7	34.9	1.5	0.25	94	68	19.4
402	IGO 518	98	2.2	0.7	22.1	1.4	0.25	87	96	13.9
403	IGO 499	59	2.3	0.8	31.0	1.4	0.25	99	61	13.2
404	IGO 1040	122	2.8	0.7	26.4	1.1	0.29	193	80	34.1
405	IGO 456	61	2.8	0.7	31.1	1.5	0.29	189	75	28.3
406	IGO 1110	76	2.7	0.9	30.3	1.5	0.32	114	79	13.6
407	IGO 557	80	3.0	1.0	32.7	1.7	0.29	72	43	12.3
408	IGO 532	126	2.3	0.7	25.0	1.3	0.32	80	82	14.1
409	IGO 590	97	2.1	0.6	22.9	1.5	0.29	89	57	15.2
410	IGO 724	51	3.5	1.3	44.4	1.7	0.57	78	61	13.6
411	IGO 480	138	2.1	0.7	25.7	1.1	0.29	66	82	11.4
412	IGO 1305	127	1.8	0.7	23.5	1.2	0.29	108	55	18.4
413	IGO 243	68	3.0	0.8	28.3	1.6	0.36	89	89	13.1
414	IGO 2650	82	2.6	0.8	28.6	1.4	0.36	99	76	16.0
415	IGO 491	48	3.2	1.2	30.0	2.1	0.57	108	57	17.1
416	IGO 2670	94	3.3	0.9	34.2	1.7	0.43	174	47	24.2
417	IGO 597	110	2.1	0.7	23.9	1.3	0.25	93	51	15.3
418	IGO 466	65	2.9	1.0	28.8	1.7	0.39	132	69	22.4

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch19	ch20	ch21	ch22	ch23	ch24	ch25	ch26	ch27
419	IGO 560	90	2.3	0.7	30.1	1.6	0.36	75	61	13.5
420	IGO 903	99	2.4	0.9	34.6	1.6	0.36	67	69	11.1
421	IGO 1092	135	2.7	0.8	33.3	1.5	0.32	98	62	15.6
422	IGO 1310	78	2.3	0.8	35.0	1.3	0.29	82	78	15.3
423	IGO 3946	65	2.5	1.0	31.5	1.5	0.29	93	79	16.6
424	IGO 1309	70	2.5	0.8	26.7	1.5	0.25	66	109	10.9
425	IGO 3065	90	2.4	0.9	30.4	1.3	0.29	170	75	29.8
426	IGO 3972	45	3.3	0.8	41.2	1.7	0.32	17	54	27.9
427	IGO 1319	143	3.6	0.9	35.3	1.5	0.21	103	83	15.0
428	IGO 1079	75	4.6	1.2	39.4	2.0	0.32	93	59	11.2
429	IGO 519	76	3.5	0.8	34.9	1.6	0.21	43	44	8.1
430	IGO 368	85	3.4	1.0	35.3	1.6	0.29	71	49	13.2
431	IGO 1302	59	4.4	0.9	48.0	1.8	0.36	73	49	13.3
432	IGO 1257	55	4.7	1.1	54.2	1.8	0.29	184	100	24.1
433	IGO 1230	67	4.3	0.7	36.3	1.9	0.29	140	88	19.2
434	IGO 668	94	3.6	0.9	35.6	1.6	0.21	260	78	32.9
435	IGO 2842	63	3.9	0.9	40.6	2.0	0.29	199	69	30.5
436	IGO 666	96	2.9	0.8	23.7	1.4	0.21	132	62	21.6
437	IGO 2650	71	3.7	0.8	48.7	1.7	0.25	54	66	9.2
438	IGO 790	95	3.4	0.9	42.1	1.7	0.29	180	74	29.6
439	IGO 1327	63	4.0	1.2	52.8	1.9	0.36	68	76	11.1
440	IGO 524	68	3.5	1.0	43.3	1.9	0.29	76	75	11.2
441	IGO 1249	58	4.5	1.3	56.1	2.0	0.32	84	32	14.0
442	IGO 1219	61	3.8	0.9	41.8	2.0	0.32	72	47	12.7
443	IGO 3012	98	3.6	0.9	41.5	1.9	0.25	139	49	16.7
444	IGO 3013	98	3.3	0.9	43.8	1.7	0.36	89	54	13.2
445	IGO 1116	65	4.0	1.1	50.3	2.0	0.36	151	115	19.2
446	IGO 2118	98	3.3	0.9	32.9	1.6	0.25	171	76	24.9
447	IGO 1094	58	3.9	0.9	51.2	1.9	0.36	163	72	20.8
448	IGO 1109	56	3.9	1.1	39.9	2.0	0.32	74	56	14.0
449	IGO 1324	84	3.8	1.0	42.2	1.9	0.29	95	55	18.1
450	IGO 1198	90	3.4	0.7	26.4	1.6	0.21	104	60	18.9
451	IGO 1120	70	2.8	0.8	35.5	1.7	0.31	90	83	15.0

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch19	ch20	ch21	ch22	ch23	ch24	ch25	ch26	ch27
452	IGO 671	42	3.3	1.0	40.7	1.8	0.31	118	120	19.3
453	IGO 728	41	3.4	1.0	49.5	2.2	0.40	111	67	20.2
454	IGO 903	54	3.3	1.0	42.1	1.8	0.35	63	66	23.6
455	IGO 1212	80	3.7	1.0	42.2	1.7	0.31	251	120	28.5
456	IGO 1328	36	4.5	1.2	56.4	2.1	0.31	208	54	29.8

ch 19 = Florets/ panicle

ch 21 = Outer Glume Width (cm)

ch 23 = Seed Length (mm)

ch 25 = GFY / m row at 1st cut (gm)

ch 27 = DFY / m row at 1st cut

ch 20 = Outer Glume Length (cm)

ch 22 = 1000 seed weight (gm)

ch 24 = Seed width (mm)

ch 26 = number of tillers / m row at 1st cut

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 28	ch29	ch30	ch31	ch32	ch33	ch34	ch35	ch 36
1	PI 486164	519	195	57.3	225	54	55.3	896	136.0	15.18
2	PI 497696	467	133	54.2	265	42	48.4	867	121.5	14.01
3	PI 497880	571	142	57.1	345	65	69.2	1051	152.1	14.47
4	PI 497799	1012	205	98.4	545	95	96.8	1674	207.8	12.41
5	PI 497790	726	174	85.5	390	66	69.2	1289	178.9	13.88
6	PI 497874	856	127	92.7	320	64	79.5	1353	193.0	14.26
7	PI 497725	519	114	60.3	300	65	62.2	908	140.7	15.50
8	PI 466869	830	175	87.2	340	68	49.8	1365	157.8	11.56
9	PI 497724	882	207	64.6	530	92	69.2	1589	155.1	9.76
10	PI 497778	934	188	74.5	530	84	96.8	1683	196.7	11.69
11	PI 497777	856	235	69	480	76	103.7	1526	198.5	13.01
12	PI 497708	908	188	69.5	530	85	96.8	1595	185.9	11.66
13	PI 497821	1167	157	126.2	280	59	62.2	1734	219.2	12.64
14	PI 498912	804	169	78.3	510	78	112.7	1488	208.6	14.02
15	PI 497860	1038	143	79.4	200	53	62.2	1435	166.2	11.58
16	PI 497736	830	157	87.1	681	71	114.1	1626	212.9	13.09
17	PI 476810	1038	146	95.3	200	48	48.4	1390	160.5	11.55
18	PI 497809	856	163	88.8	480	82	69.2	1523	178.8	11.74
19	PI 497703	778	137	58.1	430	58	62.2	1338	133.1	9.95
20	PI 471907	778	153	63.1	450	71	83	1356	160.7	11.85
21	PI 497912	519	142	55.7	390	79	69.2	1013	136.8	13.50
22	PI 497648	752	117	58.4	380	44	76.1	1317	157.6	11.97
23	PI 497706	1219	143	108.2	500	54	93.4	1969	229.0	11.63
24	PI 486862	986	277	92.2	560	86	110.7	1686	219.3	13.01
25	PI 486863	519	286	59.4	560	102	98.2	1183	169.7	14.34
26	PI 497818	273	111	31.5	231	37	49.5	625	97.3	15.57
27	PI 497726	424	111	48.8	124	47	31.5	674	93.4	13.86
28	PI 497858	455	97	53.3	189	53	40.5	779	111.2	14.27
29	PI 497730	576	161	62.3	148	52	27	946	109.7	11.60
30	PI 466896	515	230	59.3	246	67	49.5	895	126.0	14.08
31	PI 497806	637	140	72.8	272	62	63.1	1059	155.8	14.71
32	PI 497155	515	95	46.8	314	67	67.6	969	132.5	13.67
33	PI 466870	409	108	43.7	195	43	36	745	99.5	13.36
34	PI 497686	485	142	46.5	201	49	42.8	825	109.0	13.21
35	PI 486134	424	135	40.7	207	55	40.5	822	107.5	13.08

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 28	ch29	ch30	ch31	ch32	ch33	ch34	ch35	ch 36
36	PI 466865	606	138	67.2	80	40	22.5	852	114.4	13.43
37	PI 497695	379	144	43.9	195	50	45	695	101.9	14.66
38	PI 497697	409	219	47.3	189	48	49.5	722	115.2	15.96
39	PI 466868	315	102	42.7	249	49	58.6	654	116.4	17.80
40	PI 497752	394	142	37.6	213	44	38.3	696	93.7	13.46
41	PI 466889	455	40	51.5	337	112	65.3	938	139.3	14.85
42	PI 497709	303	133	37.6	184	29	40.5	600	92.0	15.33
43	PI 497694	485	35	57.7	148	52	31.5	791	113.9	14.40
44	PI 469106	333	128	39.5	201	53	50.4	659	107.3	16.28
45	PI 466892	409	88	43	65	17	18	721	92.0	12.76
46	PI 466888	424	86	37.8	166	53	40.5	735	99.5	13.54
47	PI 497807	424	92	50.4	118	27	22.5	714	97.9	13.71
48	PI 497827	364	63	34.9	195	39	42.8	730	100.5	13.77
49	PI 466871	303	95	28.8	166	33	36.9	600	84.3	14.05
50	PI 466867	349	135	26.2	225	37	67.6	788	122.4	15.53
51	PI 477687	973	232	98.1	409	72	84.9	1554	206.3	13.28
52	PI 431206	1440	172	167.5	511	86	116.1	2100	306.9	14.61
53	PI 497905	739	294	85.4	307	38	62.5	1140	162.1	14.22
54	PI 497762	739	183	92.2	319	42	58.1	1249	175.8	14.08
55	PI 497820	1089	185	129.6	383	63	80.4	1604	228.9	14.27
56	CI 9216	739	290	81.2	473	75	67	1325	175.7	13.26
57	CI 9372	817	181	89.7	255	58	58.1	1287	188.3	14.63
58	CI 7912	895	229	132.8	358	60	107.2	1492	275.1	18.44
59	CI 9400	1245	207	156.5	319	53	71.5	1786	263.9	14.78
60	CI 9342	661	274	86.5	422	79	62.5	1213	169.9	14.01
61	CI 9261	467	170	64.4	409	58	75.9	988	166.3	16.83
62	CI 9365	700	137	80.8	664	73	75.9	1499	176.4	11.77
63	CI 9136	778	334	77.8	600	82	98.3	1549	198.5	12.81
64	CI 8311	778	197	101.8	409	77	62.5	1347	189.5	14.07
65	CI 9386	895	205	97.6	319	60	62.5	1345	178.7	13.29
66	CI 9220	934	235	80.2	549	77	98.3	1649	201.9	12.24
67	CI 9771	739	142	89.8	345	72	67	1221	176.6	14.46
68	CI 9406	817	221	105.3	422	63	80.4	1400	208.6	14.90
69	CI 9238	778	240	109.1	447	117	80.4	1353	206.4	15.25
70	CI 9368	856	135	69.2	485	65	53.6	1529	148.6	9.72

S.No.	Acc.no.	ch 28	ch29	ch30	ch31	ch32	ch33	ch34	ch35	ch 36
71	CI 5275	856	173	91.7	575	87	98.3	1567	219.1	13.98
72	CI 9810	661	56	61.3	473	111	71.5	1188	139.7	11.76
73	CI 8916	467	232	65.4	409	72	73.3	1041	171.3	16.46
74	CI 9166	506	110	49.6	345	104	49.1	970	127.5	13.14
75	CI 8449	661	192	83.2	383	63	44.7	1181	145.1	12.29
76	CI 9322	596	117	79.5	190	31	44.2	1001	150.8	15.06
77	CI 9333	348	124	39.7	266	53	93.9	718	147.7	20.57
78	CI 9344	298	166	29	219	29	66.3	611	107.2	17.55
79	CI 8349	497	150	67.7	381	60	99.5	1081	196.9	18.21
80	CI 9355	248	208	34.1	162	23	44.2	497	91.1	18.33
81	CI 9308	298	180	41.8	190	48	66.3	651	124.7	19.16
82	CI 8183	596	105	72.5	343	49	77.4	1244	196.5	15.80
83	CI 9209	323	215	46.9	376	57	110.5	811	176.2	21.73
84	CI 9260	248	195	27.2	357	50	105	687	147.2	21.43
85	CI 9306	323	156	31.9	333	43	66.3	776	123.9	15.97
86	CI 4836	323	164	36.8	352	66	110.5	753	167.1	22.19
87	CI 9136	497	140	62.6	305	55	66.3	942	152.2	16.16
88	CI 8113	447	127	55	124	56	82.9	695	152.0	21.87
89	CI 9310	472	152	60.5	409	106	127.1	995	206.7	20.77
90	CI 8319	248	209	35.9	133	30	60.8	457	108.8	23.81
91	CI 8313	248	180	31.7	114	37	38.7	461	86.9	18.85
92	CI 9367	298	203	48.4	286	65	99.5	644	158.7	24.64
93	CI 9327	273	183	31.4	419	56	71.8	767	124.3	16.21
94	CI 9329	298	119	34.4	228	51	74	615	123.4	20.07
95	CI 4913	248	162	30.4	305	44	110.5	647	155.0	23.96
96	CI 9330	373	129	40.3	286	49	105.9	741	162.6	21.94
97	CI 9358	248	240	27.8	352	55	74	680	119.8	17.62
98	CI 9340	149	137	27	238	46	55.3	495	98.4	19.88
99	CI 9356	149	105	21.3	352	63	74	581	110.4	19.00
100	CI 9268	149	166	21.8	328	43	108.3	554	146.9	26.52
101	CI 9469	973	197	102.1	298	79	92.9	1445	216.1	14.96
102	CI 9198	1459	178	145.5	563	68	100.1	2293	278.8	12.16
103	CI 9303	1654	242	162.5	706	61	135.8	2607	338.3	12.98
104	CI 9239	924	199	95.4	408	61	51.5	1492	173.5	11.63
105	CI 9263	1459	120	135.4	607	62	98.6	2442	284.2	11.64

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 28	ch29	ch30	ch31	ch32	ch33	ch34	ch35	ch 36
106	CI 9265	1897	139	178.9	507	49	107.2	2920	345.4	11.83
107	CI 7624	1264	133	146	419	53	64.3	2029	251.0	12.37
108	CI 9357	1021	217	105.1	353	88	32.2	1607	172.3	10.72
109	CI 9354	1508	223	123.2	452	57	42.9	2347	207.1	8.82
110	CI 9316	1605	207	159.9	552	76	135.8	2570	348.6	13.56
111	CI 9328	1897	228	172.6	640	66	114.3	2940	338.1	11.50
112	CI 9386	973	264	118.5	640	72	117.9	1803	286.3	15.88
113	CI 8450	1459	172	161	574	63	107.2	2310	304.0	13.16
114	CI 9259	1362	181	147.5	496	67	80.8	2111	258.1	12.23
115	CI 9403	1313	207	138.7	673	77	92.9	2316	279.0	12.05
116	CI 8315	1556	217	179.7	563	55	71.5	2427	287.7	11.85
117	CI 9376	1070	169	110.1	563	64	75.8	1856	220.7	11.89
118	CI 8850	1799	232	191.5	430	87	64.5	2773	308.2	11.11
119	CI 9416	1605	156	150.3	386	55	39.3	2323	226.6	9.75
120	CI 9411	1459	201	180.2	789	95	121.5	2560	336.7	13.15
121	CI 9375	1070	130	129.2	496	66	50	1906	223.4	11.72
122	CI 9413	1556	161	137.2	430	64	39.3	2514	244.0	9.71
123	CI 9371	1654	163	124.7	496	66	46.5	3032	258.3	8.52
124	CI 9422	1556	112	133.3	430	65	92.9	2354	265.7	11.29
125	CI 9345	1459	156	125.8	353	52	57.2	2275	238.1	10.47
126	CI 9397	539	153	45.5	243	56	60	923	121.4	13.15
127	CI 9623	688	161	88.3	255	57	72.9	1104	180.0	16.30
128	CI 9387	299	110	32.7	337	56	132.9	675	178.3	26.41
129	CI 9315	299	143	37.9	431	61	171.5	795	218.1	27.43
130	CI 9377	165	163	19.8	340	59	137.2	550	166.6	30.29
131	CI 9400	254	207	28.9	419	63	154.4	743	191.8	25.81
132	CI 9343	329	86	37.1	303	42	111.5	680	156.0	22.94
133	CI 9330	311	160	41.9	413	87	137.2	772	186.9	24.21
134	CI 9370	449	120	45.6	334	52	137.2	859	192.2	22.37
135	CI 9350	314	160	38.1	358	40	162.9	734	209.5	28.54
136	CI 9422	449	102	49.9	255	69	77.2	826	139.9	16.94
137	BGP 48	374	113	43.4	364	72	94.3	844	149.9	17.76
138	BGP 33	419	169	47.4	115	15	38.6	636	97.2	15.28
139	BGP 37	314	66	44.8	303	44	77.2	726	134.8	18.57
140	BGP 36	419	123	43.7	243	24	82.9	767	138.6	18.07



S.No.	Acc.no.	ch 28	ch29	ch30	ch31	ch32	ch33	ch34	ch35	ch 36
141	BGP 13	317	63	38.4	237	40	85.8	620	131.5	21.21
142	BGP 4	269	97	31.1	297	33	85.8	645	129.4	20.06
143	BGP 59	239	72	33	334	33	68.6	651	111.5	17.13
144	BGP 64	284	94	35.9	385	48	102.9	874	158.8	18.17
145	BGP 96	434	97	36.4	373	56	145.8	893	194.7	21.80
146	BGP 42	329	130	35	312	43	126.9	762	177.9	23.35
147	BGP 41	299	109	32.6	306	29	85.8	689	130.1	18.88
148	BGP 38	329	83	36.7	261	28	85.8	712	135.8	19.07
149	BGP 12	329	104	35.7	206	30	60	652	108.5	16.64
150	BGP 9	434	107	35.5	188	41	81.5	770	133.9	17.39
151	BGP 75	838	109	80.8	324	56	78	1273	173.7	13.64
152	BGP 71	180	60	16.6	81	23	21.4	307	44.7	14.56
153	BGP 63	838	45	90	743	79	177.4	1663	278.7	16.76
154	BGP 87	299	161	35.4	59	55	34.1	453	82.3	18.17
155	BGP 58	988	143	111.2	324	48	87.7	1360	214.5	15.77
156	BGP 95	838	72	82.7	354	33	82.8	1315	183.2	13.93
157	BGP 35	658	81	71.2	546	54	162.7	1283	249.2	19.42
158	BGP 94	359	141	41.3	273	28	62.4	710	118.2	16.65
159	BGP 10	539	58	59.5	647	51	124.7	1274	198.5	15.58
160	BGP 40	539	107	80.3	556	66	146.2	1164	236.2	20.29
161	BGP 39	838	137	90.4	526	84	121.8	1484	226.8	15.28
162	BGP 44	569	253	53.9	253	49	53.6	935	121.3	12.97
163	BGP 68	269	111	34.9	506	29	155.9	846	201.2	23.78
164	BGP 65	419	50	52.6	445	44	78	939	140.3	14.94
165	BGP 79	389	72	48.2	445	50	92.6	912	158.5	17.38
166	BGP 34	569	132	59.5	394	38	97.5	1077	171.1	15.89
167	BGP 23	599	76	69.9	607	30	116.9	1363	203.2	14.91
168	BGP 55	389	57	47.2	607	42	87.7	1124	149.5	13.30
169	BGP 20	359	61	45.4	263	67	50.7	701	105.3	15.02
170	BGP 91	479	111	50.6	324	32	82.8	928	147.7	15.92
171	BGP 21	299	47	35.4	425	48	78	876	130.7	14.92
172	BGP 1	359	91	38.5	354	95	92.6	874	150.3	17.20
173	BGP 60	509	62	56.5	273	39	74.1	1001	158.4	15.82
174	BGP 51	299	54	26.1	526	44	116.9	945	158.0	16.72
175	BGP 66	359	85	41	384	48	82.8	856	139.6	16.31

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 28	ch29	ch30	ch31	ch32	ch33	ch34	ch35	ch 36
176	BGP 85	684	140	85.7	209	53	49.3	1047	158.9	15.18
177	BGP 62	483	124	55.7	184	56	35.9	831	118.1	14.21
178	BGP 50	402	99	60.4	338	71	43.5	897	140.8	15.70
179	BGP 82	483	121	49.3	166	59	37.7	808	121.2	15.00
180	BGP 69	644	111	92.3	246	73	49.3	1009	161.6	16.02
181	BGP 86	523	140	80	209	63	56.8	860	154.9	18.01
182	BGP 88	563	124	56.2	258	83	57.9	959	138.7	14.46
183	BGP 17	282	199	37.5	154	37	37.7	515	88.1	17.11
184	BGP 92	523	81	74.1	166	42	43.5	916	151.8	16.57
185	BGP 73	483	91	72.7	160	54	43.5	829	146.6	17.68
186	BGO 11	684	133	93	246	63	55	1106	180.0	16.27
187	BGP 70	443	137	64.5	184	47	30.1	781	127.3	16.30
188	BGP 74	402	130	57.4	270	83	86.9	818	172.7	21.11
189	BGP 15	644	243	80.5	135	62	46.4	948	155.3	16.38
190	BGP 3	805	141	99	209	53	52.2	1296	190.9	14.73
191	BGP 19	966	134	120.2	221	64	60.8	1349	212.0	15.72
192	BGP 16	885	156	109.5	178	65	46.4	1288	194.0	15.06
193	BGP 67	241	134	40.6	147	41	37.7	476	92.8	19.50
194	BGP 98	362	99	64	215	42	52.2	670	131.7	19.66
195	BGP 47	322	83	41.8	197	76	49.3	621	106.7	17.18
196	BGP 83	161	206	21.2	154	41	34.8	373	70.7	18.95
197	BGP 97	644	202	86.7	221	50	60.8	1024	176.1	17.20
198	BGP 93	161	156	24.8	147	51	37.7	376	75.2	20.00
199	BGP 46	402	153	49.3	166	74	31.9	727	106.7	14.68
200	BGP 14	402	146	57.2	172	46	43.5	659	113.6	17.24
201	BGP 18	883	187	88.4	218	54	39	1388	187.5	13.51
202	BGP 76	410	106	46.3	260	39	42.2	837	130.2	15.56
203	BGP 89	631	152	80.3	141	45	29.2	1085	174.5	16.08
204	BGP 81	568	140	70.6	190	45	32.5	1001	155.5	15.53
205	BGP 61	978	133	112.5	267	58	65	1483	233.8	15.77
206	PA 2672	883	207	102.6	331	76	65	1472	233.6	15.87
207	PA 2857	694	126	70.5	267	57	52	1178	169.9	14.42
208	PA 3562	1009	254	148	106	29	22.7	1536	253.1	16.48
209	PA 3498	946	182	84.1	162	69	29.2	1364	168.6	12.36
210	PA 2673	568	275	67.1	109	50	22.7	933	165.5	17.74

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 28	ch29	ch30	ch31	ch32	ch33	ch34	ch35	ch 36
211	PA 2840	946	156	112.3	239	65	42.2	1494	217.0	14.52
212	PA 3579	1136	171	119.4	246	50	52	1815	257.6	14.19
213	PA 2838	707	212	77.3	260	65	42.2	1185	174.8	14.75
214	PA 2828	694	112	78.7	197	60	29.2	1151	170.2	14.79
215	PA 2822	959	167	96.2	246	56	52	1707	262.4	15.37
216	PA 2685	719	238	75.3	127	37	22.7	1211	196.6	16.23
217	PA 2662	707	119	79.9	281	77	55.2	1315	205.7	15.64
218	PA 2854	1073	164	106.7	218	97	39	1583	225.2	14.23
219	PA 2673	707	268	83.6	232	72	35.7	1265	194.0	15.34
220	PA 2699	902	147	100.7	84	36	22.7	1266	175.6	13.87
221	PA 2704	795	127	91.3	232	76	39	1347	194.7	14.45
222	PA 2682	883	171	104.9	98	36	22.7	1352	195.6	14.47
223	PA 2668	568	202	71.1	134	61	35.7	1132	231.3	20.43
224	PA 2829	795	161	77.8	239	51	22.7	1287	153.9	11.96
225	PA 2826	543	173	64.6	345	91	42.2	1234	200.7	16.26
226	PA 2823	808	196	70.6	348	84	45.5	1377	163.5	11.87
227	PA 2849	562	122	67.5	260	39	47.2	923	128.2	13.89
228	PA 2878	369	146	36.1	120	31	30	588	78.5	13.35
229	PA 2853	597	66	70.5	419	77	113.6	1149	204.7	17.82
230	PA 2802	377	126	43.6	120	30	31.8	680	96.9	14.25
231	PA 2803	483	81	55	225	42	56.3	828	125.6	15.17
232	PA 2809	369	126	41.3	246	36	61.8	737	117.8	15.98
233	PA 2714	386	85	43.7	352	44	65.4	840	121.3	14.44
234	PA 2780	211	71	28	450	44	61.8	747	100.3	13.43
235	PA 2832	202	94	24.3	176	41	31.8	457	68.5	14.99
236	PA 2821	281	108	32.9	387	57	61.8	877	121.7	13.88
237	PA 2829	500	157	46.8	366	71	68.1	980	127.1	12.97
238	PA 2823	439	127	52.6	387	58	75.4	923	141.9	15.37
239	PA 2824	544	92	69.6	485	67	70.9	1190	159.0	13.36
240	PA 2812	1053	142	102.9	345	49	49.1	1553	169.3	10.90
241	PA 2828	632	67	73.2	348	55	90.8	1125	183.5	16.31
242	PA 2827	553	72	57.9	162	35	38.2	886	117.0	13.21
243	PA 2674	369	85	47.5	120	33	25.4	637	92.7	14.55
244	PA 2830	307	113	39.1	113	42	23.6	526	78.1	14.85
245	PA 2877	448	112	58.3	295	51	50.9	992	146.6	14.78
246	PA 2807	483	90	54.1	88	28	25.4	748	103.5	13.84
247	PA 2805	632	87	58.7	190	26	31.8	962	107.8	11.21
248	EC 79873	570	64	65	148	19	36.3	918	126.1	13.74

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 28	ch29	ch30	ch31	ch32	ch33	ch34	ch35	ch 36
249	EC 108656	369	108	44.4	295	60	38.2	908	112.4	12.38
250	EC 61704	412	86	50.2	176	29	27.3	854	96.4	11.29
251	EC 57332	570	83	36.8	169	33	24.5	981	90.1	9.18
252	EC 107892	641	117	67.4	233	75	46.2	1005	132.1	13.14
253	EC 130643	595	122	52.2	224	45	49.5	958	127.8	13.34
254	EC 57662	572	89	77.8	280	61	62.7	914	152.5	16.68
255	EC 108439	629	119	66.3	252	38	82.5	958	161.9	16.90
256	EC 16929	572	108	51	261	33	74.2	947	147.5	15.58
257	EC 107534	858	130	96.8	140	33	46.2	1098	156.4	14.24
258	EC 102331	973	147	119.1	261	60	99	1315	234.4	17.83
259	EC 108456	915	122	122.6	131	40	41.2	1102	176.1	15.98
260	EC 97525	858	126	101.7	149	49	52.8	1046	162.2	15.51
261	EC 31058	572	173	43.9	271	75	99	935	159.9	17.10
262	EC 107021	801	218	79.6	261	63	90.7	1145	184.9	16.15
263	EC 35151	915	118	94.1	196	54	69.3	1221	190.0	15.56
264	EC 35216	687	116	78	252	37	92.4	1039	196.3	18.89
265	EC 96583	629	119	70	103	26	37.9	794	120.6	15.19
266	EC 97537	801	135	67.4	187	33	69.3	1061	149.9	14.13
267	EC 52807	1030	131	84.2	233	34	62.7	1351	162.1	12.00
268	EC 10483	687	159	58.4	289	45	99	1074	172.7	16.08
269	EC 34576	801	182	97	271	40	74.2	1198	193.7	16.17
270	EC 196071	1087	152	111.9	252	39	69.3	1428	198.2	13.88
271	EC 43555	973	142	104.7	205	58	92.4	1240	208.6	16.82
272	EC 35753	1087	144	98.2	215	34	82.5	1415	200.8	14.19
273	EC 107624	1087	165	94.1	252	50	99	1411	205.9	14.59
274	EC 104492	1087	175	155	121	35	41.2	1279	209.3	16.36
275	EC 86444	858	122	69.6	215	46	52.8	1184	141.6	11.96
276	EC 97248	915	160	72.5	187	38	41.2	1198	129.7	10.83
277	EC 102011	802	127	81.8	270	38	49.1	1253	154.7	12.35
278	EC 102353	547	116	74.2	234	40	71.5	932	164.3	17.63
279	EC 16931	547	124	70.2	144	33	33.5	882	130.4	14.78
280	EC 54837	657	103	73.3	198	29	62.5	1058	164.9	15.59
281	EC 108437	547	135	82.2	198	40	55.8	925	162.4	17.56
282	EC 57651	584	131	65.2	216	28	44.7	1069	130.5	12.21
283	EC 178960	547	123	60.5	306	17	67	967	143.5	14.84

S.No.	Acc.no.	ch 28	ch29	ch30	ch31	ch32	ch33	ch34	ch35	ch 36
284	EC 104006	547	83	64.9	216	39	55.8	937	145.5	15.53
285	EC 102643	584	114	85.6	252	40	78.2	1019	189.8	18.63
286	EC 10448	292	112	51.3	234	30	67	677	138.5	20.46
287	EC 97520	511	113	60.7	270	34	67	991	159.0	16.04
288	EC 82355	730	111	80.8	252	34	55.8	1146	157.7	13.76
289	EC 96576	365	133	55.7	360	63	100.5	878	177.8	20.25
290	EC 107324	438	117	51.9	503	45	111.7	1125	187.9	16.70
291	EC 466859	620	139	71.9	378	47	100.5	1167	199.9	17.13
292	EC 130748	766	128	106.1	198	51	62.5	1080	186.1	17.23
293	EC 107221	511	146	55.3	288	48	100.5	971	180.2	18.56
294	EC 109221	511	129	63.2	198	51	67	892	156.0	17.49
295	EC 102348	292	108	48.6	144	33	33.5	505	94.5	18.71
296	EC 108586	511	98	81.4	234	41	55.8	864	154.3	17.86
297	EC 133510	401	114	41.7	180	33	49.1	672	113.0	16.82
298	EC 100758	511	111	54.5	180	35	49.1	885	132.5	14.97
299	EC 57661	620	105	77.3	216	35	62.5	918	152.1	16.57
300	EC 131050	182	92	25.5	306	42	78.2	595	116.1	19.51
301	EC 107541	365	122	42.2	342	35	89.3	821	149.1	18.16
302	EC 54836	432	69	62.1	187	37	41.7	733	121.6	16.59
303	EC 108124	432	73	53.6	245	33	52.1	798	124.1	15.55
304	EC 29049	216	53	26.5	144	23	26.8	546	83.1	15.22
305	EC 16695	389	54	47.8	115	28	29.8	663	100.9	15.22
306	EC 178960	432	76	53.5	230	42	52.1	817	126.7	15.51
307	EC 58531	476	61	60.4	346	36	71.5	1069	163.2	15.27
308	EC 9884	346	66	45	101	25	37.2	607	102.7	16.92
309	EC 9269	389	84	37.8	245	49	44.7	761	98.4	12.93
310	EC 15969	476	48	56.7	187	36	32.8	872	120.2	13.78
311	EC 16967	432	80	49.2	245	48	52.1	897	132.6	14.78
312	EC 9970	303	77	36	115	32	32.8	519	82.2	15.84
313	EC 86444	216	63	29.1	173	35	32.8	514	83.6	16.26
314	EC 107022	476	92	56.9	245	50	59.6	911	139.6	15.32
315	EC 4438	476	69	60.4	288	46	67	1081	167.7	15.51
316	EC 28815	519	64	68.6	115	44	31.3	789	120.9	15.32
317	EC 310507	367	87	59	259	42	52.1	809	132.0	16.32
318	EC 28804	432	98	49.3	216	47	47.6	950	133.5	14.05

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 28	ch29	ch30	ch31	ch32	ch33	ch34	ch35	ch 36
319	EC 104472	432	59	45.3	158	24	29.8	807	106.4	13.18
320	EC 70924	648	96	54.1	274	47	52.1	1097	127.7	11.64
321	EC 4721	562	102	57.3	216	44	32.8	1082	128.3	11.86
322	EC 96548	281	65	41.3	317	55	52.1	731	109.6	14.99
323	EC 108602	432	105	52.9	158	40	26.8	666	100.7	15.12
324	EC 130646	476	98	58.7	288	46	32.8	949	115.3	12.15
325	EC 108648	648	88	73.4	202	45	37.2	1002	130.7	13.04
326	EC 159606	432	88	54.8	115	32	17.9	712	96.5	13.55
327	EC 5681	790	133	78.2	116	32	23	1013	119.2	11.77
328	EC 182972	893	148	83.4	127	53	27.6	1150	133.0	11.57
329	EC 96592	549	109	58.7	208	54	38.3	928	125.4	13.51
330	EC 108620	961	102	96.9	162	38	45.9	1290	170.4	13.21
331	EC 313801	961	201	106	199	52	58.2	1295	187.2	14.46
332	EC 159073	549	160	46.5	243	36	68.9	1126	127.8	11.35
333	EC 131290	1510	151	109.7	289	78	76.6	1992	213.6	10.72
334	EC 1249	618	121	67.7	173	56	39.8	1072	149.3	13.93
335	EC 179872	824	110	82.7	196	51	42.9	1186	151.2	12.75
336	EC 112034	618	121	61.7	220	41	53.6	985	140.6	14.27
337	EC 96540	652	161	68.9	150	33	30.6	1056	138.9	13.15
338	EC 182972	687	180	71.1	173	38	45.9	1040	145.8	14.02
339	EC 117069	687	154	80.6	173	43	53.6	1068	167.5	15.68
340	EC 310506	824	113	62.2	254	47	42.9	1280	134.6	10.52
341	EC 96583	481	163	49.4	220	38	38.3	907	128.6	14.18
342	EC 24900	755	164	71.4	220	46	45.9	1207	154.6	12.81
343	EC 140599	687	154	74.2	116	37	27.6	1187	156.0	13.14
344	EC 109282	755	113	64.4	185	53	33.7	1244	149.3	12.00
345	EC 310504	721	103	59.7	127	44	24.5	1100	131.0	11.91
346	EC 310509	378	72	77.1	243	57	45.9	728	141.7	19.46
347	EC 109232	790	99	59.7	185	43	33.7	1257	143.2	11.39
348	EC 107017	515	121	50.3	208	46	45.9	891	137.4	15.42
349	EC 107534	687	142	77.6	173	25	38.3	1042	143.2	13.74
350	EC 131313	515	75	57.8	162	42	61.3	839	151.3	18.03
351	EC 16183	343	134	38.6	150	34	42.9	621	105.9	17.05
352	EC 131306	1514	175	155.9	336	64	67.8	2121	254.0	11.98
353	EC 108656	1577	113	123.2	261	58	59.1	2099	213.7	10.18

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 28	ch29	ch30	ch31	ch32	ch33	ch34	ch35	ch 36
354	EC 109667	757	93	56.8	274	52	59.1	1162	131.6	11.33
355	EC 108451	694	79	73.6	224	25	34.5	1077	128.8	11.96
356	EC 117406	631	82	68.1	100	26	22.2	885	128.3	14.50
357	EC 108603	631	110	66.3	224	49	37	1039	127.6	12.28
358	EC 159070	252	105	66.1	212	47	43.1	533	120.6	22.63
359	EC 310506	379	95	41.5	124	38	24.6	600	80.9	13.48
360	EC 179824	442	125	67.1	361	53	80.1	878	160.3	18.26
361	EC 162643	410	93	63.8	124	41	27.1	870	130.6	15.01
362	EC 131532	1009	139	94	187	48	37	1482	155.0	10.46
363	EC 22023	379	116	54.8	249	68	39.4	784	117.3	14.96
364	EC 109348	662	101	68.2	212	53	34.5	1023	124.9	12.21
365	EC 10847	883	106	82.1	174	34	43.1	1191	144.2	12.11
366	EC 130648	662	117	65.5	133	71	27.1	881	105.2	11.94
367	EC 140899	599	105	66.4	100	49	24.6	836	122.3	14.63
368	EC 130503	694	113	70	199	44	30.8	999	114.6	11.47
369	EC 130646	473	128	47.8	187	34	37	772	99.6	12.90
370	EC 133316	379	136	42.5	124	38	27.1	577	80.2	13.90
371	EC 57248	662	131	58.2	187	34	39.4	981	117.8	12.01
372	EC 183173	883	94	97.5	174	41	32	1271	173.8	13.67
373	EC 159069	852	117	80	137	30	29.6	1180	133.6	11.32
374	EC 16787	852	117	70.9	174	42	37	1213	132.8	10.95
375	EC 104599	883	133	91.2	212	52	44.4	1309	161.9	12.37
376	EC 131313	883	105	86.2	137	41	22.2	1211	131.3	10.84
377	IGO 562	713	138	93.6	260	33	66.5	1171	204.5	17.46
378	IGO 14	324	219	42.5	277	49	64.7	706	126.4	17.90
379	IGO 132	373	202	60.8	225	54	48.1	707	129.0	18.25
380	IGO 74	421	132	51.9	173	33	33.3	737	110.2	14.95
381	IGO 242	486	131	67.1	243	35	59.1	952	169.7	17.83
382	IGO 543	551	186	63.1	295	60	83.2	946	167.9	17.75
383	IGO 570	567	187	81.6	208	69	40.7	891	157.9	17.72
384	IGO 536	519	140	73.8	139	27	33.3	808	135.4	16.76
385	IGO 725	600	157	77.3	225	42	51.8	1078	165.6	15.36
386	IGO 374	324	191	54.3	243	60	59.1	652	137.0	21.01

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 28	ch29	ch30	ch31	ch32	ch33	ch34	ch35	ch 36
387	IGO 371	519	116	77	139	32	29.6	803	134.7	16.77
388	IGO 586	373	114	45.7	173	34	44.4	645	123.2	19.10
389	IGO 1096	486	168	67.1	277	45	46.2	840	129.5	15.42
390	IGO 210	357	178	47.8	173	46	37	584	97.3	16.66
391	IGO 474	486	132	57.6	173	35	33.3	744	110.6	14.87
392	IGO 460	340	134	37.7	191	45	48.1	580	97.5	16.81
393	IGO 592	438	108	53	243	38	62.8	789	136.6	17.31
394	IGO 510	519	166	63.7	243	33	59.1	931	150.5	16.17
395	IGO 377	503	233	66.4	225	56	55.4	972	165.8	17.06
396	IGO 52	632	172	73.1	381	75	55.4	1187	162.3	13.67
397	IGO 262	584	124	77.8	139	17	33.3	962	151.4	15.74
398	IGO 489	616	140	83.9	243	30	64.7	1046	186.1	17.79
399	IGO 506	486	150	61.4	347	65	64.7	938	144.4	15.39
400	IGO 266	454	187	54.9	208	52	44.4	756	123.9	16.39
401	IGO 571	454	117	53.4	277	40	70.2	825	143.0	17.33
402	IGO 518	428	144	60.6	777	94	94.7	1292	169.2	13.10
403	IGO 499	584	97	75.8	316	79	64.8	999	153.8	15.40
404	IGO 1040	389	109	55.7	364	55	87.3	946	177.1	18.72
405	IGO 456	739	74	98.8	340	53	74.8	1268	201.9	15.92
406	IGO 1110	292	68	42.2	316	33	79.8	722	135.6	18.78
407	IGO 557	195	43	28.3	243	26	44.9	510	85.5	16.76
408	IGO 532	389	66	37.9	316	55	74.8	785	126.8	16.15
409	IGO 590	506	104	61.3	510	82	112.2	1105	188.7	17.08
410	IGO 724	389	68	44.6	413	52	79.8	880	138.0	15.68
411	IGO 480	311	67	54.5	340	57	87.3	717	153.2	21.37
412	IGO 1305	428	87	63.3	558	89	104.7	1094	186.4	17.04
413	IGO 243	584	89	99.2	485	62	94.7	1158	207.0	17.88
414	IGO 2650	428	125	55.2	510	94	99.7	1037	170.9	16.48
415	IGO 491	506	70	69.5	461	67	87.3	1075	173.9	16.18
416	IGO 2670	428	59	58.6	534	71	104.7	1136	187.5	16.51
417	IGO 597	366	102	48.9	243	49	44.9	702	109.1	15.54
418	IGO 466	311	84	62.3	243	46	52.4	686	137.1	19.99
419	IGO 560	389	82	56.3	388	70	94.7	852	164.5	19.31



## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 28	ch29	ch30	ch31	ch32	ch33	ch34	ch35	ch 36
420	IGO 903	350	102	50.9	510	94	109.7	927	171.7	18.52
421	IGO 1092	233	98	39.8	485	48	99.7	816	155.1	19.01
422	IGO 1310	311	103	35	316	75	79.8	709	130.1	18.35
423	IGO 3946	195	78	32.7	388	59	94.7	676	144.0	21.30
424	IGO 1309	389	112	62.4	413	79	84.8	868	158.1	18.21
425	IGO 3065	436	91	53.6	364	55	74.8	970	158.2	16.31
426	IGO 3972	545	84	75.6	510	74	99.7	1072	203.2	18.96
427	IGO 1319	477	135	51.7	507	58	95.3	1087	162.0	14.90
428	IGO 1079	509	120	37.9	463	53	100.1	1065	149.2	14.01
429	IGO 519	265	107	27.1	331	63	71.5	639	106.7	16.70
430	IGO 368	318	101	32.4	463	51	95.3	852	140.9	16.54
431	IGO 1302	424	83	38.1	397	50	76.2	894	127.6	14.27
432	IGO 1257	584	103	47.1	287	55	61.9	1055	133.1	12.62
433	IGO 1230	371	93	37.9	441	70	83.4	952	140.5	14.76
434	IGO 668	371	67	48.2	199	53	57.2	830	138.3	16.66
435	IGO 2842	477	74	55.4	309	57	76.2	985	162.1	16.46
436	IGO 666	531	99	62.2	463	46	95.3	1126	179.1	15.91
437	IGO 2650	265	152	29.4	221	59	42.9	540	81.5	15.09
438	IGO 790	531	78	54.8	507	47	100.1	1218	184.5	15.15
439	IGO 1327	265	123	33	276	33	57.2	609	101.3	16.63
440	IGO 524	318	183	33.8	265	40	52.4	659	97.4	14.78
441	IGO 1249	265	74	23.8	662	63	90.5	1011	128.3	12.69
442	IGO 1219	276	95	25.1	375	29	71.5	723	109.3	15.12
443	IGO 3012	594	91	58	243	46	61.9	976	136.6	14.00
444	IGO 3013	265	81	35.4	552	36	107.2	906	155.8	17.20
445	IGO 1116	424	148	47.8	177	37	42.9	752	109.9	14.61
446	IGO 2118	477	138	55	419	55	90.5	1067	170.4	15.97
447	IGO 1094	531	113	52.7	309	53	76.2	1003	149.7	14.93
448	IGO 1109	212	93	28.1	441	47	114.3	727	156.4	21.51
449	IGO 1324	318	101	33	331	57	83.4	744	134.5	18.08
450	IGO 1198	265	127	33.1	265	44	76.2	634	128.2	20.22
451	IGO 1120	318	203	34.1	353	61	90.5	761	139.6	18.34
452	IGO 671	637	177	65.8	118	25	22.2	873	107.3	12.29

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 28	ch29	ch30	ch31	ch32	ch33	ch34	ch35	ch 36
453	IGO 728	212	91	28.5	262	58	67.8	585	116.5	19.91
454	IGO 903	509	199	57.7	97	39	25.9	669	107.2	16.02
455	IGO 1212	1592	185	168.7	233	53	56.7	2076	253.9	12.23
456	IGO 1328	743	171	68.8	311	49	55.4	1262	154.0	12.20

ch 28 = GFY /m row at 2nd cut (gm)

ch 29 = Number of tillers / m row at 2nd cut (gm)

ch 30 = DFY / m row at 2nd cut (gm)

ch 36 = Dry Matter % (total)

ch 33 = DFY/ m row at 3rd cut (gm)

ch 34 = Total GFY (gm)

ch 31 = GFY/ m row at 3rd cut (gm)

ch 32 = Number of tillers / m row at 3rd cut (gm)

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 37	ch 38	ch 39	ch 40	ch 41	ch 42	ch 43	ch 44	ch 45
1	PI 486164	G	E	DG	C	LB	E	L	0	NA
2	PI 497696	G	SS	DG	C	LB	E	L	A	NA
3	PI 497880	G	SS	DG	C	DB	E	SC	0-1	SST
4	PI 497799	G	SS	MG	C	DB	E	L	A	NA
5	PI 497790	G	SS	DG	C	DB	SE	SC	0-1	W
6	PI 497874	G	S	DG	C	LB	E	L	1	SST
7	PI 497725	G	S	DG	C	DB	E	SC	A	NA
8	PI 466869	G	E	DG	C	MB	E	L	A	NA
9	PI 497724	G	E	DG	C	MB	E	L	1	ST
10	PI 497778	G	E	DG	C	DB	E	L	A	NA
11	PI 497777	G	E	DG	C	MB	SE	SC	0-1	W
12	PI 497708	G	E	MG	C	DB	E	L	1	ST
13	PI 497821	G	E	MG	C	DB	E	L	A	NA
14	PI 498912	G	SS	DG	C	MB	E	Cm	1	SST
15	PI 497860	G	SS	MG	C	MB	E	SC	A	NA
16	PI 497736	G	S	DG	C	LB	SE	SC	1	ST
17	PI 476810	G	E	LG	B	LB	E	L	A	NA
18	PI 497809	G	SS	DG	C	DB	E	SC	0-1	W
19	PI 497703	LP	SS	DG	C	DB	E	SC	1	S
20	PI 471907	G	E	LG	C	DB	E	L	1	SST
21	PI 497912	G	S	DG	B	MB	E	L	1	SST
22	PI 497648	G	E	LG	C	DB	SE	SC	0-1	W
23	PI 497706	G	E	LG	C	DB	E	L	A	NA
24	PI 486862	G	S	DG	C	DB	E	SC	0-1	W
25	PI 486863	G	SS	MG	C	DB	E	L	0-1	W
26	PI 497818	G	SS	MG	C	MB	E	Cm	0-1	S
27	PI 497726	G	E	MG	LC	MB	E	L	1	SST
28	PI 497858	LP	SS	MG	LC	LB	E	L	1	SST
29	PI 497730	LP	E	DG	C	MB	E	SC	1	ST
30	PI 466896	G	SS	MG	C	DB	E	L	A	NA
31	PI 497806	G	SS	LG	C	MB	E	L	0-1	SST
32	PI 497155	G	S	DG	LC	MB	E	L	0-1	SST
33	PI 466870	G	S	MG	LC	MB	E	L	0-1	SST
34	PI 497686	G	SS	LG	C	MB				
35	PI 486134	G	SS	MG	LC	DB	E	Cm	A	NA

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 37	ch 38	ch 39	ch 40	ch 41	ch 42	ch 43	ch 44	ch 45
36	PI 466865	G	SS	LG	C	DB	E	L	1	SST
37	PI 497695	G	E	DG	B	MB	E	L	A	NA
38	PI 497697	G	S	DG	LC	MB	E	L	0-1	SST
39	PI 466868	G	S	DG	LC	DB	E	SC	A	NA
40	PI 497752	G	S	DG	LC	MB	E	Cm	A	NA
41	PI 466889	G	S	DG	LC	LB	E	SC	1	SST
42	PI 497709	G	S	DG	LC	MB	E	SC	1	W
43	PI 497694	G	S	DG	C	DB	E	SC	0-1	W
44	PI 469106	G	SS	MG	C	DB	E	SC	1	S
45	PI 466892	G	E	LG	LC	LB	E	L	0-1	S
46	PI 466888	G	SS	LG	B	MB	E	L	0-1	W
47	PI 497807	G	E	LG	C	DB	E	SC	0-1	W
48	PI 497827	G	S	DG	C	DB	E	L	0-1	W
49	PI 466871	G	E	MG	C	MB	E	SC	1	ST
50	PI 466867	G	S	DG	LC	LB	E	L	A	NA
51	PI 477687	G	SS	DG	C	MB	E	L	0-1	W
52	PI 431206	G	E	MG	LC	DB	E	SC	1	SST
53	PI 497905	G	S	DG	LC	MB	E	L	0-1	W
54	PI 497762	G	SS	MG	LC	MB	E	L	0-1	W
55	PI 497820	G	SS	DG	C	DB	E	L	1	ST
56	CI 9216	G	S	DG	LC	DB	E	SC	A	NA
57	CI 9372	G	E	MG	C	DB	E	L	0-1	W
58	CI 7912	G	E	DG	C	MB	E	L	1	SST
59	CI 9400	G	E	DG	B	DB	E	SC	1	ST
60	CI 9342	G	S	DG	B	LB	E	SC	1	SST
61	CI 9261	G	E	LG	C	DB	E	L	1	ST
62	CI 9365	LP	SS	DG	C	DB	E	L	0-1	W
63	CI 9136	G	S	LG	LC	MB	E	L	1	SST
64	CI 8311	G	S	LG	LC	MB	E	L	0-1	SST
65	CI 9386	G	E	DG	C	MB	E	SC	0-1	ST
66	CI 9220	G	SS	MG	C	DB	E	SC	0-1	W
67	CI 9771	G	SS	MG	B	MB	E	L	0-1	W
68	CI 9406	G	SS	MG	LC	LB	E	L	0-1	W
69	CI 9238	LP	SS	MG	B	LB	E	L	0-1	SST
70	CI 9368	G	E	LG	C	MB	E	Cm	0-1	W

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 37	ch 38	ch 39	ch 40	ch 41	ch 42	ch 43	ch 44	ch 45
71	CI 5275	LP	E	DG	LC	MB	E	L	1	W
72	CI 9810	G	SS	MG	B	MB	E	L	0-1	W
73	CI 8916	G	SS	MG	LC	DB	E	SC	A	NA
74	CI 9166	G	SS	MG	LC	LB	E	L	A	NA
75	CI 8449	LP	SS	DG	C	DB	E	SC	1	ST
76	CI 9322	G	SS	MG	LC	MB	E	L	0-1	W
77	CI 9333	G	S	LG	LC	DB	E	L	1	ST
78	CI 9344	G	S	MG	C	LB	E	L	A	NA
79	CI 8349	G	S	DG	LC	DB	E	L	A	NA
80	CI 9355	G	S	DG	C	LB	E	L	0-1	W
81	CI 9308	G	E	LG	B	MB	E	L	A	NA
82	CI 8183	G	S	DG	LC	DB	E	L	0-1	W
83	CI 9209	G	S	DG	B	MB	E	Cm	0-1	W
84	CI 9260	LP	SS	LG	LC	MB	E	L	0-1	W
85	CI 9306	G	S	DG	LC	MB	E	L	0-1	W
86	CI 4836	G	E	MG	C	MB	E	SC	A	NA
87	CI 9136	P	E	LG	LC	MB	E	L	1	ST
88	CI 8113	G	S	DG	LC	MB	E	SC	1	SST
89	CI 9310	G	S	DG	B	MB	E	L	1	SST
90	CI 8319	G	S	DG	LC	DB	E	SC	A	NA
91	CI 8313	G	S	DG	C	DB	E	SC	A	NA
92	CI 9367	G	SS	MG	C	MB	E	L	0-1	W
93	CI 9327	G	SS	MG	LC	MB	E	L	0-1	W
94	CI 9329	LP	E	LG	LC	DB	E	SC	A	NA
95	CI 4913	G	S	DG	LC	DB	E	SC	A	NA
96	CI 9330	G	SS	MG	LC	MB	E	L	0-1	SST
97	CI 9358	G	E	LG	LC	DB	E	SC	1	SST
98	CI 9340	G	S	DG	C	DB	E	SC	A	NA
99	CI 9356	G	S	DG	LC	DB	E	L	1	SST
100	CI 9268	G	S	DG	LC	LB	E	L	0-1	W
101	CI 9469	G	SS	DG	LC	LB	E	L	0-1	ST
102	CI 9198	G	S	DG	C	MB	E	SC	0-1	W
103	CI 9303	G	S	DG	MC	MB	E	SC	0-1	W
104	CI 9239	G	E	MG	C	DB	E	L	0-1	W
105	CI 9263	G	SS	DG	C	MB	E	L	A	NA

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 37	ch 38	ch 39	ch 40	ch 41	ch 42	ch 43	ch 44	ch 45
106	CI 9265	G	E	DG	LC	DB	E	SC	0-1	W
107	CI 7624	G	S	DG	LC	LB	E	L	0-1	W
108	CI 9357	G	S	DG	LC	MB	E	L	0-1	W
109	CI 9354	G	S	DG	LC	LB	E	SC	1	ST
110	CI 9316	G	S	LG	LC	LB	E	SC	0-1	W
111	CI 9328	G	S	DG	B	LB	E	SC	0-1	SST
112	CI 9386	G	SS	MG	LC	LB	E	SC	1	SST
113	CI 8450	G	S	MG	LC	MB	E	SC	1	W
114	CI 9259	G	S	DG	LC	MB				
115	CI 9403	G	S	DG	C	MB	E	L	0-1	W
116	CI 8315	G	S	DG	LC	LB	E	Cm	0-1	ST
117	CI 9376	G	S	DG	LC	MB	E	Cm	A	NA
118	CI 8850	G	SS	LG	C	MB	E	L	0-1	W
119	CI 9416	G	SS	DG	C	MB	E	SC	1	ST
120	CI 9411	LP	SS	MG	C	MB	E	SC	A	ST
121	CI 9375	G	SS	DG	C	DB	E	SC	1	W
122	CI 9413	G	SS	DG	LC	DB	E	SC	1	SST
123	CI 9371	G	S	DG	LC	MB	E	L	1	ST
124	CI 9422	G	S	DG	LC	MB	E	SC	1	SST
125	CI 9345	G	SS	MG	LC	MB	E	L	0-1	ST
126	CI 9397	G	SS	MG	C	DB	E	L	0-1	W
127	CI 9623	G	SS	LG	LC	MB	E	L	0-1	SST
128	CI 9387	G	S	DG	LC	DB	E	SC	A	NA
129	CI 9315	G	SS	LG	LC	MB	E	L	0-1	W
130	CI 9377	G	S	DG	B	LB	E	L	0-1	SST
131	CI 9400	G	S	DG	LC	DB	E	L	0-1	SST
132	CI 9343	G	S	LG	LC	MB	E	L	1	SST
133	CI 9330	G	SS	DG	C	DB	E	L	0-1	ST
134	CI 9370	G	S	DG	LC	MB	E	L	0-1	W
135	CI 9350	G	E	DG	C	MB	E	L	0-1	W
136	CI 9422	G	E	DG	LC	MB	E	SC	0-1	ST
137	BGP 48	G	S	DG	C	DB	E	L	1	W
138	BGP 33	LP	E	MG	LC	MB	E	SC	0-1	W
139	BGP 37	G	E	LG	C	DB	E	SC	A	NA
140	BGP 36	G	E	LG	C	DB	E	L	0-1	SST

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 37	ch 38	ch 39	ch 40	ch 41	ch 42	ch 43	ch 44	ch 45
141	BGP 13	P	E	LG	B	MB	E	Cm	1	ST
142	BGP 4	LP	E	MG	C	DB	E	SC	1	SST
143	BGP 59	G	E	DG	C	MB	E	SC	A	NA
144	BGP 64	G	SS	DG	C	MB	E	SC	A	NA
145	BGP 96	G	S	DG	C	MB	E	SC	1	W
146	BGP 42	G	SS	MG	LC	DB	E	L	A	NA
147	BGP 41	LP	E	MG	C	MB	E	L	A	NA
148	BGP 38	P	E	LG	C	LB	E	SC	0-1	W
149	BGP 12	G	E	MG	LC	DB	E	SC	0-1	SST
150	BGP 9	G	E	DG	LC	MB	E	L	0-1	W
151	BGP 75	G	S	DG	C	DB	E	SC	0-1	W
152	BGP 71	G	E	MG	B	MB	E	SC	1	SST
153	BGP 63	G	SS	MG	C	DB	E	L	0-1	W
154	BGP 87	G	S	MG	C	DB	E	L	A	NA
155	BGP 58	G	E	LG	C	MB	E	Cm	0-1	W
156	BGP 95	G	S	DG	LC	MB	E	L	A	NA
157	BGP 35	G	E	MG	LC	MB	E	L	0-1	SST
158	BGP 94	G	SS	DG	C	DB	E	SC	A	NA
159	BGP 10	G	SS	DG	LC	LB	E	L	A	NA
160	BGP 40	LP	SS	DG	C	DB	E	L	A	NA
161	BGP 39	LP	E	MG	C	MB	E	L	A	NA
162	BGP 44	LP	SS	MG	LC	MB	E	L	A	NA
163	BGP 68	G	E	DG	C	DB	E	L	A	NA
164	BGP 65	G	SS	MG	LC	MB	E	L	0-1	W
165	BGP 79	G	S	DG	LC	LB	E	Cm	1	ST
166	BGP 34	G	E	LG	C	MB	E	SC	1	ST
167	BGP 23	G	E	MG	C	MB	E	L	0-1	W
168	BGP 55	G	S	DG	C	DB	E	SC	A	NA
169	BGP 20	G	E	LG	LC	DB	E	L	0-1	SST
170	BGP 91	G	S	DG	B	DB	E	L	0-1	SST
171	BGP 21	G	S	DG	B	MB	E	SC	0-1	SST
172	BGP 1	G	E	LG	B	LB	E	L	1	ST
173	BGP 60	G	S	DG	C	DB	E	L	0-1	SST
174	BGP 51	G	S	DG	LC	MB	E	SC	0-1	SST
175	BGP 66	G	E	LG	B	MB	E	L	1	ST
176	BGP 85	G	E	MG	LC	MB	E	L	A	NA
177	BGP 62	G	SS	MG	LC	MB	E	SC	0-1	W
178	BGP 50	G	E	MG	C	LB	E	L	A	NA

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 37	ch 38	ch 39	ch 40	ch 41	ch 42	ch 43	ch 44	ch 45
179	BGP 82	G	SS	MG	LC	MB	E	SC	1	ST
180	BGP 69	G	SS	DG	LC	MB	E	L	A	NA
181	BGP 86	G	S	DG	LC	MB	E	L	A	NA
182	BGP 88	G	S	DG	LC	MB	E	SC	0-1	W
183	BGP 17	G	E	LG	C	MB	E	Cm	0-1	SST
184	BGP 92	G	E	LG	LC	LB	E	Cm	0-1	SST
185	BGP 73	G	SS	MG	LC	MB	E	SC	0-1	SST
186	BGO 11	G	S	MG	LC	MB	E	L	0-1	W
187	BGP 70	G	S	DG	LC	DB	E	L	A	NA
188	BGP 74	LP	E	MG	LC	MB	E	L	A	NA
189	BGP 15	LP	E	MG	LC	MB	E	L	A	NA
190	BGP 3	LP	SS	LG	LC	MB	E	L	A	NA
191	BGP 19	G	E	LG	C	DB	E	SC	A	NA
192	BGP 16	G	E	LG	LC	MB	E	L	1	ST
193	BGP 67	LP	SS	LG	LC	MB	E	L	1	ST
194	BGP 98	LP	SS	LG	C	DB	E	SC	0-1	SST
195	BGP 47	G	S	DG	C	DB	E	L	0-1	W
196	BGP 83	G	SS	MG	LC	DB	E	SC	1	SST
197	BGP 97	G	S	DG	C	DB	E	L	0-1	W
198	BGP 93	G	S	DG	C	DB	E	SC	A	NA
199	BGP 46	G	S	DG	LC	MB	E	SC	A	NA
200	BGP 14	G	E	LG	C	MB	E	L	0-1	W
201	BGP 18	G	E	DG	C	MB	E	L	1	ST
202	BGP 76	LP	SS	DG	LC	MB	E	L	0-1	SST
203	BGP 89	G	S	DG	LC	LB	E	L	A	NA
204	BGP 81	G	E	MG	MC	LB	E	L	1	ST
205	BGP 61	G	S	DG	MC	MB	E	L	0-1	SST
206	PA 2672	G	E	LG	MC	LB	E	L	0-1	W
207	PA 2857	G	SS	DG	MC	MB	E	L	1	ST
208	PA 3562	G	SS	MG	LC	LB	E	L	1	ST
209	PA 3498	G	S	DG	MC	LB	E	L	A	NA
210	PA 2673	LP	E	MG	LC	MB	E	L	1	ST
211	PA 2840	G	S	DG	C	DB	E	L	0-1	ST
212	PA 3579	G	S	DG	MC	MB	E	L	A	NA
213	PA 2838	LP	E	LG	LC	LB	E	L	1	ST
214	PA 2828	G	E	LG	MC	MB	E	L	A	NA
215	PA 2822	G	S	DG	LC	LB	E	VL	0-1	W
216	PA 2685	G	E	MG	MC	MB	E	L	1	ST



## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 37	ch 38	ch 39	ch 40	ch 41	ch 42	ch 43	ch 44	ch 45
217	PA 2662	P	E	LG	LC	LB	E	VL	1	SST
218	PA 2854	G	S	MG	LC	LB	E	VL	A	NA
219	PA 2673	G	SS	LG	MC	LB	E	VL	0-1	SST
220	PA 2699	G	E	MG	MC	MB	E	L	1	SST
221	PA 2704	G	E	DG	C	DB	E	VL	A	NA
222	PA 2682	G	E	LG	LC	LB	E	L	1	SST
223	PA 2668	LP	SS	MG	LC	LB	E	L	1	ST
224	PA 2829	LP	E	LG	LC	LB	E	SC	A	NA
225	PA 2826	G	SS	LG	LC	LB	E	SC	1	W
226	PA 2823	LP	E	LG	MC	LB	E	L	1	ST
227	PA 2849	G	E	LG	MC	LB	E	VL	1	ST
228	PA 2878	G	E	LG	LC	LB	E	VL	1	ST
229	PA 2853	G	S	DG	LC	LB	E	Cm	1	ST
230	PA 2802	P	E	LG	LC	MB	E	VL	1	SST
231	PA 2803	G	E	LG	MC	MB	E	VL	1	SST
232	PA 2809	G	SS	MG	LC	LB	E	L	0-1	ST
233	PA 2714	G	E	LG	LC	LB	E	VL	0-1	W
234	PA 2780	G	SS	DG	LC	LB	E	VL	1	W
235	PA 2832	G	SS	MG	LC	LB	E	L	1	ST
236	PA 2821	G	S	MG	LC	LB	E	SC	1	ST
237	PA 2829	G	S	DG	C	LB	E	VL	0-1	W
238	PA 2823	G	S	LG	LC	LB	E	L	1	SST
239	PA 2824	G	S	MG	LC	LB	E	L	0-1	SST
240	PA 2812	G	S	DG	C	LB	E	VL	A	NA
241	PA 2828	LP	SS	MG	LC	MB	E	VL	1	ST
242	PA 2827	G	S	MG	LC	LB	E	L	0-1	W
243	PA 2674	P	SS	MG	LC	LB	E	L	1	ST
244	PA 2830	LP	E	LG	MC	LB	E	VL	0-1	SST
245	PA 2877	G	S	DG	C	LB	E	L	0-1	W
246	PA 2807	G	E	DG	C	MB	E	L	0-1	W
247	PA 2885	G	E	DG	MC	LB	E	VL	0-1	W
248	EC 79873	G	E	LG	MC	MB	E	VL	1	ST
249	EC 108656	G	S	MG	C	LB	E	SC	1	ST
250	EC 61704	G	E	MG	C	LB	E	VL	0-1	W
251	EC 57332	G	E	MG	C	MB	E	VL	0-1	W

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 37	ch 38	ch 39	ch 40	ch 41	ch 42	ch 43	ch 44	ch 45
252	EC 107892	G	SS	DG	MC	LB	E	VL	0-1	W
253	EC 130643	G	E	LG	MC	LB	E	Cm	0-1	SST
254	EC 57662	G	E	LG	MC	LB	E	L	A	NA
255	EC 108439	G	E	MG	MC	MB	E	VL	1	ST
256	EC 16929	G	E	LG	LC	MB	E	VL	0-1	W
257	EC 107534	G	SS	MG	MC	LB	E	VL	A	NA
258	EC 102331	G	SS	MG	MC	LB	E	VL	A	NA
259	EC 108456	G	E	LG	C	MB	E	SC	A	NA
260	EC 97525	LP	SS	DG	LC	LB	E	Cm	A	NA
261	EC 31058	G	SS	DG	MC	LB	E	L	0-1	SST
262	EC 107021	LP	E	MG	B	LB	E	VL	A	NA
263	EC 35151	G	E	LG	LC	LB	E	L	0-1	ST
264	EC 35216	G	E	LG	MC	LB	E	VL	0-1	W
265	EC 96583	G	E	LG	MC	LB	E	L	1	ST
266	EC 97537	G	E	MG	C	LB	E	VL	A	NA
267	EC 52807	G	E	DG	MC	LB	E	VL	A	NA
268	EC 10483	G	E	MG	LC	LB	E	VL	A	NA
269	EC 34576	G	E	MG	LC	LB	E	L	0-1	W
270	EC 196071	G	SS	MG	MC	LB	E	SC	A	NA
271	EC 43555	LP	E	LG	LC	LB	E	VL	0-1	ST
272	EC 35753	G	E	MG	LC	LB	E	VL	A	NA
273	EC 107624	G	SS	MG	LC	LB	E	VL	A	NA
274	EC 104492	G	E	LG	LC	LB	E	VL	A	NA
275	EC 86444	G	SS	MG	MC	LB	E	VL	1	ST
276	EC 97248	G	E	DG	LC	LB	E	L	A	NA
277	EC 102011	G	E	MG	MC	LB	E	L	0-1	SST
278	EC 102353	G	SS	MG	MC	LB	E	L	0-1	W
279	EC 16931	G	E	LG	LC	LB	E	VL	0-1	SST
280	EC 54837	G	E	LG	MC	LB	E	VL	0-1	W
281	EC 108437	LP	E	LG	MC	LB	E	VL	0-1	W
282	EC 57651	LP	E	LG	LC	LB	E	VL	1	ST
283	EC 178960	G	E	LG	MC	LB	E	L	0-1	SST
284	EC 104006	LP	E	MG	LC	LB	E	VL	A	NA
285	EC 102643	LP	E	MG	LC	LB	E	VL	A	NA
286	EC 10448	LP	SS	LG	LC	LB	E	VL	A	NA

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 37	ch 38	ch 39	ch 40	ch 41	ch 42	ch 43	ch 44	ch 45
287	EC 97520	LP	E	MG	MC	LB	E	L	0-1	ST
288	EC 82355	G	S	MG	MC	LB	E	SC	1	ST
289	EC 96576	LP	SS	MG	LC	LB	E	L	0-1	SST
290	EC 107324	G	SS	DG	MC	LB	E	L	0-1	W
291	EC 466859	LP	SS	MG	LC	LB	E	VL	0-1	W
292	EC 130748	G	SS	MG	MC	MB	E	VL	0-1	W
293	EC 107221	LP	SS	DG	LC	LB	E	VL	0-1	W
294	EC 109221	LP	SS	MG	LC	LB	E	VL	1	ST
295	EC 102348	G	E	MG	MC	MB	E	VL	A	NA
296	EC 108586	LP	SS	MG	LC	LB	E	VL	A	NA
297	EC 133510	LP	SS	MG	LC	LB	E	VL	1 2	SST
298	EC 100758	LP	SS	MG	LC	LB	E	VL	A	NA
299	EC 57661	LP	E	MG	MC	LB	E	VL	A	NA
300	EC 131050	LP	E	LG	B	LB	E	L	0-1	W
301	EC 107541	G	E	LG	LC	LB	E	L	0-1	W
302	EC 54836	G	E	MG	MC	LB	E	SC	0-1	W
303	EC 108124	G	E	MG	LC	MB	E	SC	A	NA
304	EC 29049	LP	E	LG	MC	LB	E	L	A	NA
305	EC 16695	G	SS	MG	MC	LB	E	VL	1	W
306	EC 178960	G	E	MG	MC	LB	E	L	0-1	W
307	EC 58531	G	E	MG	MC	MB	E	VL	0-1	SST
308	EC 9884	G	E	MG	LC	LB	E	VL	1	SST
309	EC 9269	G	E	MG	LC	LB	E	VL	A	NA
310	EC 15969	G	SS	MG	MC	LB	E	SC	1	W
311	EC 16967	G	SS	LG	MC	LB	E	SC	A	NA
312	EC 9970	LP	E	DG	LC	LB	E	VL	0-1	W
313	EC 86444	G	E	MG	LC	LB	E	L	0-1	W
314	EC 107022	LP	SS	MG	MC	LB	E	VL	A	NA
315	EC 4438	G	E	LG	MC	LB	E	L	1	W
316	EC 28815	G	E	MG	MC	LB	E	VL	A	NA
317	EC 310507	G	SS	LG	MC	LB	E	SC	1	S
318	EC 28804	G	E	LG	LC	LB	E	L	A	NA
319	EC 104472	G	E	LG	MC	MB	E	L	1	W
320	EC 70924	G	E	LG	MC	MB	E	L	1	SST
321	EC 4721	LP	E	LG	MC	LB	E	L	A	NA

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 37	ch 38	ch 39	ch 40	ch 41	ch 42	ch 43	ch 44	ch 45
322	EC 96548	G	S	MG	LC	LB	E	L	A	NA
323	EC 108602	G	SS	LG	MC	LB	E	VL	A	NA
324	EC 130646	G	S	DG	C	MB	E	Cm	1	W
325	EC 108648	G	SS	LG	C	MB	E	VL	A	NA
326	EC 159606	LP	E	LG	MC	LB	E	SC	1	SST
327	EC 5681	P	E	LG	MC	MB	E	VL	1	SST
328	EC 182972	G	E	MG	MC	MB	E	VL	A	NA
329	EC 96592	LP	E	LG	MC	MB	E	VL	1	SST
330	EC 108620	LP	E	MG	MC	ML	E	L	1	SST
331	EC 313801	G	S	DG	MC	LB	E	L	A	NA
332	EC 159073	G	S	DG	MC	MB	E	VL	A	NA
333	EC 131290	LP	SS	DG	MC	MB	E	L	1	ST
334	EC 1249	G	E	LG	C	ML	E	VL	A	NA
335	EC 179872	G	E	MG	MC	MB	E	VL	0-1	W
336	EC 112034	LP	E	LG	MC	LB	E	VL	0-1	W
337	EC 96540	LP	E	LG						
338	EC 182972	G	S	MG	MC	LB	E	VL	A	NA
339	EC 117069	G	E	MG	MC	LB	E	VL	0-1	W
340	EC 310506	G	SS	MG	C	MB	E	SC	1	ST
341	EC 96583	G	E	MG	MC	LB	E	L	A	NA
342	EC 24900	G	E	MG	MC	LB	E	VL	A	NA
343	EC 140599	G	E	MG	MC	LB	E	L	0-1	ST
344	EC 109282	LP	E	MG	C	MB	E	VL	1	SST
345	EC 310504	P	S	DG	C	MB	E	SC	A	NA
346	EC 310509	LP	SS	LG	MC	LB	E	VL	1	SST
347	EC 109232	G	SS	DG	C	LB	E	VL	A	NA
348	EC 107017	LP	E	LG	C	LB	E	L	0-1	SST
349	EC 107534	G	SS	MG	C	DB	E	L	A	NA
350	EC 131313	G	SS	MG	MC	LB	E	SC	1	SST
351	EC 16183	G	E	MG	MC	LB	E	L	A	NA
352	EC 131306	G	SS	DG	MC	LB	E	L	0-1	W
353	EC 108656	G	SS	DG	C	LB	E	VL	A	NA
354	EC 109667	LP	E	LG	C	LB	E	L	1	W
355	EC 108451	G	E	LG	MC	LB	E	L	0-1	W
356	EC 117406	LP	E	LG	MC	LB	E	SC	0-1	SST

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 37	ch 38	ch 39	ch 40	ch 41	ch 42	ch 43	ch 44	ch 45
357	EC 108603	LP	S	DG	MC	LB	E	Cm	A	NA
358	EC 159070	G	SS	MG	MC	LB	E	VL	0-1	SST
359	EC 310506	G	S	DG	C	DB	E	L	0-1	W
360	EC 179824	G	E	LG	MC	MB	E	VL	A	NA
361	EC 162643	LP	E	LG	C	LB	E	L	A	NA
362	EC 131532	G	E	MG	MC	DB	E	VL	0-1	SST
363	EC 22023	G	SS	MG	C	MB	E	SC	A	NA
364	EC 109348	G	SS	DG	C	DB	E	VL	A	NA
365	EC 10847	G	S	DG	LC	LB	E	L	A	NA
366	EC 130648	G	SS	LG	C	MB	E	VL	A	NA
367	EC 140899	LP	SS	LG	MC	MB	E	VL	0-1	W
368	EC 130503	G	S	DG	MC	DB	E	SC	0-1	W
369	EC 130646	LP	SS	LG	MC	LB	E	VL	0-1	SST
370	EC 133316	LP	SS	LG	MC	LB	E	VL	1	W
371	EC 57248	G	SS	MG	MC	LB	E	VL	A	NA
372	EC 183173	LP	E	LG	MC	MB	E	L	1	ST
373	EC 159069	LP	SS	MG	MC	LB	E	VL	0-1	W
374	EC 16787	LP	SS	LG	C	LB	E	VL	0-1	W
375	EC 104599	G	SS	MG	MC	LB	E	VL	0-1	W
376	EC 131313	G	E	LG	LC	LB	E	VL	0-1	SST
377	IGO 562	LP	S	DG	LC	LB	E	SC	A	NA
378	IGO 14	G	S	MG	MC	LB	E	VL	1	SST
379	IGO 132	G	E	LG	C	MB	E	VL	0-1	W
380	IGO 74	P	E	LG	MC	LB	E	L	0-1	S
381	IGO 242	G	S	DG	MC	MB	E	L	0-1	W
382	IGO 543	G	SS	LG	LC	LB	E	L	1 2	W
383	IGO 570	LP	E	LG	MC	LB	E	VL	0-1	SST
384	IGO 536	G	SS	MG	LC	LB	E	VL	1	ST
385	IGO 725	LP	S	DG	LC	LB	E	SC	0-1	W
386	IGO 374	LP	E	LG	LC	LB	E	L	1	W
387	IGO 371	P	SS	DG	LC	LB	E	L	A	NA
388	IGO 586	G	S	DG	LC	LB	E	SC	0-1	W
389	IGO 1096	LP	S	DG	LC	LB	E	SC	0-1	W
390	IGO 210	LP	SS	DG	MC	LB	E	L	0-1	SST
391	IGO 474	P	SS	LG	MC	LB	E	SC	1	W

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 37	ch 38	ch 39	ch 40	ch 41	ch 42	ch 43	ch 44	ch 45
392	IGO 460	P	SS	LG	MC	LB	E	VL	1 2	W
393	IGO 592	G	E	MG	MC	LB	E	L	A	NA
394	IGO 510	G	SS	MG	MC	MB	E	L	1	SST
395	IGO 377	G	S	DG	LC	LB	E	L	0-1	W
396	IGO 52	G	E	DG	LC	LB	E	SC	0-1	SST
397	IGO 262	LP	SS	LG	MC	MB	E	VL	1	ST
398	IGO 489	G	S	DG	LC	LB	E	SC	A	NA
399	IGO 506	G	S	DG	MC	MB	E	L	A	NA
400	IGO 266	G	S	DG	MC	LB	E	VL	0-1	W
401	IGO 571	G	S	DG	C	LB	E	SC	0-1	SST
402	IGO 518	G	SS	DG	MC	DB	E	SC	1	W
403	IGO 499	G	E	MG	C	DB	E	L	0-1	SST
404	IGO 1040	G	S	DG	C	DB	E	L	1	W
405	IGO 456	P	E	MG	MC	MB	E	VL	0-1	W
406	IGO 1110	P	E	LG	LC	LB	E	VL	A	NA
407	IGO 557	G	E	LG	MC	LB	E	VL	A	NA
408	IGO 532	G	S	MG	MC	MB	E	L	0-1	W
409	IGO 590	G	SS	MG	LC	LB	E	L	0-1	ST
410	IGO 724	G	SS	MG	MC	DB	E	VL	2	ST
411	IGO 480	G	S	DG	MC	LB	E	VL	1	ST
412	IGO 1305	P	E	LG	LC	LB	E	VL	1	ST
413	IGO 243	G	S	MG	MC	LB	E	VL	0-1	W
414	IGO 2650	P	E	LG	MC	LB	E	L	2	ST
415	IGO 491	LP	E	LG	MC	DB	E	VL	1	ST
416	IGO 2670	P	E	LG	MC	DB	E	L	1	ST
417	IGO 597	LP	E	LG	MC	LB	E	VL	A	NA
418	IGO 466	G	S	MG	C	DB	E	VL	1	ST
419	IGO 560	G	S	MG	MC	DB	E	Cm	2	ST
420	IGO 903	LP	S	DG	MC	MB	E	Cm	0-1	SST
421	IGO 1092	G	S	MG	MC	LB	E	Cm	1	SST
422	IGO 1310	LP	SS	LG	MC	MB	E	VL	1	ST
423	IGO 3946	G	S	DG	C	MB	E	VL	1	ST
424	IGO 1309	LP	SS	MG	MC	DB	E	VL	A	NA
425	IGO 3065	G	SS	LG	LC	LB	E	VL	1	ST
426	IGO 3972	LP	S	DG	C	DB	E	Cm	2	ST
427	IGO 1319	LP	E	LG	C	DB	E	Cm	1	ST
428	IGO 1079	LP	S	LG	MC	DB	E	VL	0-1	SST
429	IGO 519	G	S	DG	MC	MB	E	VL	1	ST

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 37	ch 38	ch 39	ch 40	ch 41	ch 42	ch 43	ch 44	ch 45
430	IGO 368	P	E	LG	LC	LB	E	VL	1	ST
431	IGO 1302	G	SS	LG	MC	MB	E	VL	0-1	SST
432	IGO 1257	G	SS	LG	MC	MB	E	L	0-1	SST
433	IGO 1230	G	SS	DG	MC	DB	E	Cm	0-1	W
434	IGO 668	G	SS	DG	LC	LB	E	SC	1	ST
435	IGO 2842	LP	E	LG	C	MB	E	L	1 2	ST
436	IGO 666	G	S	DG	MC	LB	E	VL	1	ST
437	IGO 2650	G	SS	DG	MC	MB	E	VL	1	ST
438	IGO 790	G	S	MG	MC	LB	E	VL	1	ST
439	IGO 1327	G	S	DG	MC	MB	E	L	2	ST
440	IGO 524	G	E	LG	MC	LB	E	VL	0-1	ST
441	IGO 1249	G	S	DG	LC	LB	E	VL	0-1	SST
442	IGO 1219	LP	E	MG	MC	DB	E	L	2	ST
443	IGO 3012	G	SS	LG	MC	MB	E	L	1	ST
444	IGO 3013	G	S	DG	MC	LB	E	L	1	ST
445	IGO 1116	LP	E	LG	MC	LB	E	L	1	ST
446	IGO 2118	G	SS	LG	MC	LB	E	VL	0-1	ST
447	IGO 1094	G	S	MG	MC	LB	E	L	2	ST
448	IGO 1109	LP	E	LG	MC	LB	E	L	2	ST
449	IGO 1324	G	SS	LG	MC	LB	E	VL	1	ST
450	IGO 1198	G	S	DG	LC	LB	E	VL	1	ST
451	IGO 1120	G	S	MG	C	MB	E	L	0-1	ST
452	IGO 671	G	SS	LG	LC	LB	E	VL	1	ST
453	IGO 728	G	S	MG	LC	LB	E	L	2	ST
454	IGO 903	G	E	MG	MC	MB	E	SC	2	ST
455	IGO 1212	G	SS	MG	LC	LB	E	VL	0-1	ST
456	IGO 1328	G	SS	MG	MC	LB	E	VL	1	ST

ch 37 = Stem colour

ch 41 = peduncle node colour

G = Green

LP = Light purple

P = Purple

SE = Semi erect

ch 40 = Peduncle node constriction

C = Constricted

L = Loose

SC = Semi compact

Cm = Compact

NA = Not available

ch 38 = Growth Habit

ch 42 = Axis erectness

E = erect

SS = semi spreading

S = Spreading

MB = Medium brown

ch 43 = Axis compactness

VL = Very Loose

ch 45 = Awn characters

Sr = Strong

W = Weak

SST = Semi strong

ch 39 = Leaf colour

DG = Dark Green

MG = Medium Green

LG = Light Green

DB = Dark brown

LB = Light brown

ch 44 = Number of awns / floret

B = Bulge

LC = Less constricted

MC = Medium constricted

A = Absent

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 46	ch 47	ch 48	ch 49	ch 50	ch 51	ch 52	ch53
1	PI 486164	A	NA	P	A	LB	F	N	2
2	PI 497696	A	NA	A	A	LY	SA	N	1
3	PI 497880	ST	BL	P	A	LY	F	MP	0
4	PI 497799	A	NA	P	A	LY	F	N	2
5	PI 497790	ST	Y	A	A	LY	F	P	0
6	PI 497874	TW	B	A	A	LY	F	VN	1
7	PI 497725	A	NA	A	A	BY	F	MP	2
8	PI 466869	A	NA	P	A	LY	F	VN	3
9	PI 497724	TW	BR	P	P	LY	F	N	0
10	PI 497778	A	NA	P	A	LY	F	VN	2
11	PI 497777	ST	Y	A	A	BR	F	MP	0
12	PI 497708	TW	BL	P	A	CY	F	P	4
13	PI 497821	A	NA	A	A	LY	F	MP	2
14	PI 498912	TW	B	A	A	LY	F	N	2
15	PI 497860	A	NA	A	A	LY	F	P	2
16	PI 497736	TW	BL	P	A	LY	F	VN	0
17	PI 476810	A	NA	A	A	LY	F	P	1
18	PI 497809	TW	BL	P	A	LY	F	P	0
19	PI 497703	TW	BL	P	A	LY	F	MP	0
20	PI 471907	TW	BL	P	A	CY	F	MP	0
21	PI 497912	TW	BL	P	A	LY	F	MP	0
22	PI 497648	ST	Y	P	A	LY	F	MP	0
23	PI 497706	A	NA	A	A	BY	F	P	0
24	PI 486862	ST	Y	A	A	LY	F	MP	0
25	PI 486863	ST	Y	A	A	LY	F	MP	0
26	PI 497818	ST	BL	A	A	LY	F	N	3
27	PI 497726	TW	BL	A	A	LY	F	VN	3
28	PI 497858	TW	BL	A	A	LY	F	MP	1
29	PI 497730	TW	BL	P	A	CY	F	N	0
30	PI 466896	A	NA	A	A	LY	F	N	0
31	PI 497806	TW	B	A	A	LY	F	N	1
32	PI 497155	TW	BL	P	A	BY	F	VN	1
33	PI 466870	TW	BL	A	A	LY	F	N	0
34	PI 497686								0
35	PI 486134	A	NA	P	A	LY	F	MP	0
36	PI 466865	TW	BL	P	A	LY	HF	N	2
37	PI 497695	A	NA	A	A	CY	F	VN	1
38	PI 497697	TW	B	A	A	LY	F	MP	2
39	PI 466868	A	NA	A	A	CY	F	N	0



## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 46	ch 47	ch 48	ch 49	ch 50	ch 51	ch 52	ch53
40	PI 497752	A	NA	A	A	CY	F	N	0
41	PI 466889	TW	BrBI	P	A	Y	F	MP	0
42	PI 497709	TW	BL	A	A	LY	F	N	0
43	PI 497694	ST	Y	A	A	LY	F	MP	0
44	PI 469106	TW	BL	A	A	LY	F	N	0
45	PI 466892	TW	BL	P	A	Y	F	P	0
46	PI 466888	TW	BrBI	A	A	LY	F	VN	0
47	PI 497807	ST	Y	P	A	CY	F	MP	0
48	PI 497827	TW	BL	A	A	LY	F	VN	1
49	PI 466871	TW	BL	P	A	LY	F	N	1
50	PI 466867	A	NA	A	A	LY	F	MP	0
51	PI 477687	TW	BL	A	A	LY	F	VN	0
52	PI 431206	ST	BR	A	A	BY	F	MP	0
53	PI 497905	ST	Y	P	A	LY	F	N	0
54	PI 497762	TW	BL	A	A	LY	F	VN	0
55	PI 497820	TW	BL	P	P	LY	F	VN	0
56	CI 9216	A	NA	A	A	LY	F	VN	0
57	CI 9372	TW	BL	A	A	CY	F	MP	0
58	CI 7912	ST	BL	P	A	BY	F	P	0
59	CI 9400	TW	BL	A	A	BY	F	N	0
60	CI 9342	TW	BL	A	A	CY	F	P	0
61	CI 9261	TW	BL	P	P	LY	F	N	2
62	CI 9365	ST	Y	A	A	LY	F	P	3
63	CI 9136	TW	BR	P	A	CY	F	VN	0
64	CI 8311	TW	BL	A	A	LY	F	N	0
65	CI 9386	TW	BL	A	A	BY	F	MP	0
66	CI 9220	ST	Y	P	A	LY	F	VN	0
67	CI 9771	TW	BR	P	A	BY	F	N	0
68	CI 9406	TW	BR	A	A	LY	F	VN	0
69	CI 9238	TW	BL	A	A	LY	F	VN	1
70	CI 9368	ST	Y	A	A	BY	F	N	1
71	CI 5275	TW	BR	P	P	LY	F	VN	2
72	CI 9810	TW	BR	A	A	LY	F	VN	0
73	CI 8916	A	NA	A	A	LY	F	N	2
74	CI 9166	A	NA	A	A	LY	F	VN	1

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 46	ch 47	ch 48	ch 49	ch 50	ch 51	ch 52	ch53
75	CI 8449	TW	BL	P	A	BY	F	MP	2
76	CI 9322	TW	Y	A	A	LY	F	N	0
77	CI 9333	TW	BL	P	A	BY	F	N	0
78	CI 9344	A	NA	A	A	LY	F	N	0
79	CI 8349	A	NA	A	A	LY	F	MP	0
80	CI 9355	ST	Y	A	A	LY	F	P	0
81	CI 9308	A	NA	P	A	BY	F	P	0
82	CI 8183	TW	Y	A	A	Y	F	N	0
83	CI 9209	ST	Y	A	A	LY	F	MP	0
84	CI 9260	TW	Y	A	A	LY	F	N	1
85	CI 9306	ST	Y	A	A	LY	F	N	0
86	CI 4836	A	NA	A	A	LY	F	N	0
87	CI 9136	TW	BR	P	P	LY	F	MP	0
88	CI 8113	TW	BR	A	A	LY	F	P	1
89	CI 9310	TW	BL	A	A	LY	F	P	0
90	CI 8319	A	NA	A	A	CY	F	MP	0
91	CI 8313	A	NA	A	A	LY	F	MP	0
92	CI 9367	TW	BR	A	A	LY	F	VN	0
93	CI 9327	ST	Y	A	A	LY	F	N	0
94	CI 9329	A	NA	A	A	LY	F	VN	2
95	CI 4913	A	NA	P	A	CY	F	MP	0
96	CI 9330	TW	BL	A	A	CY	F	MP	0
97	CI 9358	TW	BL	P	A	LY	F	P	2
98	CI 9340	A	NA	A	A	LY	F	MP	0
99	CI 9356	ST	Y	A	A	LY	F	N	0
100	CI 9268	TW	BL	A	A	Y	F	VN	0
101	CI 9469	TW	BL	P	A	LY	F	VN	0
102	CI 9198	ST	Y	A	A	BY	F	P	0
103	CI 9303	ST	Y	P	A	CY	F	MP	0
104	CI 9239	ST	Y	P	A	CY	F	MP	0
105	CI 9263	A	NA	P	A	BY	F	P	2
106	CI 9265	ST	Y	P	A	LY	F	N	0
107	CI 7624	ST	Y	A	A	LY	F	MP	1
108	CI 9357	ST	Y	A	A	LY	F	N	1
109	CI 9354	TW	BL	A	A	BY	F	N	1

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 46	ch 47	ch 48	ch 49	ch 50	ch 51	ch 52	ch53
110	CI 9316	ST	Y	P	A	LY	F	N	0
111	CI 9328	TW	BR	A	A	CY	F	MP	0
112	CI 9386	TW	BL	A	A	LY	F	N	0
113	CI 8450	ST	Y	A	A	LY	F	N	0
114	CI 9259								0
115	CI 9403	ST	Y	A	A	CY	F	MP	0
116	CI 8315	TW	BL	P	A	BY	F	MP	0
117	CI 9376	A	NA	A	A	LY	F	VN	4
118	CI 8850	ST	Y	A	A	BY	F	VN	0
119	CI 9416	TW	BL	P	A	LY	F	MP	2
120	CI 9411	TW	BL	P	A	BY	F	MP	1
121	CI 9375	TW	BL	A	A	Y	F	MP	2
122	CI 9413	TW	BL	A	A	BY	F	P	1
123	CI 9371	TW	BL	P	A	LY	F	MP	1
124	CI 9422	TW	BL	A	A	LY	F	N	4
125	CI 9345	TW	BL	P	A	LY	F	VN	0
126	CI 9397	TW	BL	P	A	BY	F	MP	2
127	CI 9623	TW	BL	P	A	BY	F	VN	0
128	CI 9387	A	NA	A	A	CY	F	P	0
129	CI 9315	ST	Y	A	A	LY	F	N	0
130	CI 9377	ST	BR	A	A	CY	F	MP	0
131	CI 9400	TW	BR	P	A	LY	F	VN	0
132	CI 9343	TW	BL	P	A	BY	F	VN	0
133	CI 9330	TW	BL	A	A	BY	F	MP	0
134	CI 9370	ST	Y	A	A	BY	F	MP	0
135	CI 9350	ST	Y	A	A	LY	F	VN	2
136	CI 9422	TW	BL	P	A	CY	F	N	2
137	BGP 48	ST	Y	P	A	BY	F	P	0
138	BGP 33	TW	BL	A	A	Y	F	MP	2
139	BGP 37	A	NA	P	A	Y	F	MP	2
140	BGP 36	TW	BL	P	A	BY	F	MP	2
141	BGP 13	TW	BL	A	A	Y	F	N	2
142	BGP 4	TW	BL	P	A	Y	F	MP	3
143	BGP 59	A	NA	P	A	BY	F	N	3
144	BGP 64	A	NA	A	A	CY	F	MP	1

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 46	ch 47	ch 48	ch 49	ch 50	ch 51	ch 52	ch53
145	BGP 96	ST	Y	A	A	LY	F	P	1
146	BGP 42	A	NA	A	A	LY	F	P	2
147	BGP 41	A	NA	P	A	Y	F	P	1
148	BGP 38	ST	Y	P	A	Y	F	P	3
149	BGP 12	TW	BR	A	A	BY	F	P	2
150	BGP 9	ST	Y	A	A	BY	F	P	0
151	BGP 75	ST	Y	A	A	BY	F	MP	0
152	BGP 71	TW	BL	P	A	CY	F	MP	3
153	BGP 63	ST	Y	A	A	Y	F	P	0
154	BGP 87	A	NA	A	A	LY	F	P	2
155	BGP 58	ST	Y	P	A	CY	F	N	3
156	BGP 95	A	NA	A	A	CY	F	N	2
157	BGP 35	TW	BL	P	A	BY	F	MP	2
158	BGP 94	A	NA	A	A	CY	F	P	2
159	BGP 10	A	NA	P	A	Y	F	MP	1
160	BGP 40	A	NA	A	A	LY	F	MP	2
161	BGP 39	A	NA	P	A	BY	F	N	2
162	BGP 44	A	NA	A	A	CY	F	VN	2
163	BGP 68	A	NA	A	A	LY	F	VN	2
164	BGP 65	ST	Y	A	A	LY	F	P	2
165	BGP 79	TW	BL	P	A	Y	F	N	0
166	BGP 34	TW	BL	P	A	Y	F	MP	0
167	BGP 23	ST	Y	P	A	CY	F		0
168	BGP 55	A	NA	P	P	BY	F	P	0
169	BGP 20	ST	Y	P	P	CY	F	N	0
170	BGP 91	TW	BR	P	A	BY	F	N	0
171	BGP 21	TW	BR	A	A	LY	F	N	0
172	BGP 1	TW	BL	P	A	BY	F	N	0
173	BGP 60	TW	BR	P	A	BY	F	P	0
174	BGP 51	ST	BL	P	A	BY	F	P	2
175	BGP 66	TW	BL	P	A	BY	F	MP	0
176	BGP 85	A	NA	A	A	LY	F	VN	1
177	BGP 62	TW	BR	A	A	BY	F	P	1
178	BGP 50	A	NA	A	A	MY	F	VN	2
179	BGP 82	TW	BL	A	A	MY	F	N	0
180	BGP 69	A	NA	A	A	MY	F	MP	0

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 46	ch 47	ch 48	ch 49	ch 50	ch 51	ch 52	ch53
181	BGP 86	A	NA	P	A	LY	F	P	2
182	BGP 88	TW	BL	P	A	BY	F	P	2
183	BGP 17	TW	BL	P	A	BY	F	VN	2
184	BGP 92	TW	BL	A	A	LY	F	P	2
185	BGP 73	TW	BR	A	A	LY	F	P	2
186	BGO 11	ST	Y	A	A	LY	F	P	2
187	BGP 70	A	NA	A	A	MY	F	MP	0
188	BGP 74	A	NA	A	A	CY	F	N	0
189	BGP 15	A	NA	A	A	CY	F	P	0
190	BGP 3	A	NA	P	P	LY	F	MP	2
191	BGP 19	A	NA	P	A	LY	F	N	2
192	BGP 16	TW	BL	P	A	BY	F	N	1
193	BGP 67	TW	BL	P	A	BY	F	N	2
194	BGP 98	TW	BR	P	A	LY	F	VN	333
195	BGP 47	ST	Y	P	A	BY	F	MP	0
196	BGP 83	TW	BL	P	A	LY	F	MP	2
197	BGP 97	ST	Y	A	A	CY	F	MP	0
198	BGP 93	A	NA	A	A	BY	F	P	4
199	BGP 46	A	NA	P	A	MY	F	MP	2
200	BGP 14	TW	ST	A	A	LY	F	N	0
201	BGP 18	TW	BL	P	A	BY	F	MP	3
202	BGP 76	TW	BL	P	A	MY	F	N	2
203	BGP 89	A	NA	A	A	MY	F	N	0
204	BGP 81	TW	BL	P	A	MY	F	MP	0
205	BGP 61	TW	BR	P	A	MY	F	MP	2
206	PA 2672	ST	Y	P	A	BY	F	N	0
207	PA 2857	TW	BL	P	A	LY	F	N	4
208	PA 3562	TW	BL	A	A	BY	F	P	0
209	PA 3498	A	NA	A	A	LY	F	N	2
210	PA 2673	TW	BL	P	A	BY	F	N	1
211	PA 2840	TW	BL	P	P	BY	F	VN	0
212	PA 3579	A	NA	P	P	MY	F	P	3
213	PA 2838	TW	BL	P	A	BY	F	VN	4
214	PA 2828	A	NA	A	A	MY	F	MP	2
215	PA 2822	ST	Y	A	A	LY	F	MP	0

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 46	ch 47	ch 48	ch 49	ch 50	ch 51	ch 52	ch53
216	PA 2685	TW	BL	A	A	BY	F	N	3
217	PA 2662	TW	BR	P	A	MY	F	P	0
218	PA 2854	A	NA	P	P	BY	F	VN	0
219	PA 2673	TW	BL	P	A	LY	F	VN	0
220	PA 2699	TW	BL	A	A	MY	F	MP	2
221	PA 2704	A	NA	A	A	MY	F	VN	0
222	PA 2682	TW	BL	P	A	MY	F	MP	1
223	PA 2668	TW	BL	P	A	BY	F	MP	0
224	PA 2829	A	NA	A	A	MY	F	P	2
225	PA 2826	ST	Y	P	A	MY	F	MP	0
226	PA 2823	TW	BL	A	A	BY	F	P	1
227	PA 2849	TW	BL	P	A	BY	F	MP	1
228	PA 2878	TW	BL	A	A	MY	F	N	1
229	PA 2853	TW	BL	P	P	BY	F	VN	0
230	PA 2802	TW	BR	A	A	MY	F	VN	0
231	PA 2803	TW	BR	A	A	BY	F	N	4
232	PA 2809	TW	BL	A	A	MY	F	VN	0
233	PA 2714	TW	BR	A	A	BY	F	VN	2
234	PA 2780	TW	BR	P	A	BY	F	N	0
235	PA 2832	TW	BL	P	A	BY	F	MP	0
236	PA 2821	TW	BL	A	A	LY	F	N	0
237	PA 2829	ST	Y	A	A	MY	F	N	0
238	PA 2823	TW	BL	A	A	LY	F	MP	0
239	PA 2824	TW	BL	A	A	LY	F	N	0
240	PA 2812	A	NA	A	A	LY	F	VN	0
241	PA 2828	TW	BL	P	A	BY	F	MP	4
242	PA 2827	ST	Y	A	A	BY	F	MP	0
243	PA 2674	TW	BL	P	A	BY	F	MP	0
244	PA 2830	TW	BL	A	A	BY	F	MP	0
245	PA 2877	ST	Y	A	A	BY	F	N	0
246	PA 2807	ST	Y	A	A	BY	F	N	0
247	PA 2885	ST	Y	P	A	MY	F		0
248	EC 79873	TW	BL	A	A	BY	F	MP	0
249	EC 108656	TW	BL	P	A	Y	F	N	0
250	EC 61704	ST	Y	A	A	BY	F	MP	0

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 46	ch 47	ch 48	ch 49	ch 50	ch 51	ch 52	ch53
251	EC 57332	ST	Y	P	A	BY	F	P	0
252	EC 107892	ST	Y	A	A	BY	F	MP	0
253	EC 130643	TW	BL	P	A	BY	F	N	0
254	EC 57662	A	NA	A	A	BY	F	P	0
255	EC 108439	TW	BL	A	A	BY	F	MP	0
256	EC 16929	ST	Y	A	A	BY	F	MP	0
257	EC 107534	A	NA	A	A	MY	F	N	0
258	EC 102331	A	NA	A	A	MY	F	P	0
259	EC 108456	A	NA	A	A	BY	F	N	0
260	EC 97525	A	NA	P	A	LY	F	P	0
261	EC 31058	TW	BR	A	A	MY	F	MP	0
262	EC 107021	A	NA	A	A	MY	F	N	0
263	EC 35151	TW	BL	P	A	BY	F	N	0
264	EC 35216	ST	Y	P	A	BY	F	MP	0
265	EC 96583	TW	BL	P	A	BY	F	N	2
266	EC 97537	A	NA	A	A	BY	F	P	1
267	EC 52807	A	NA	A	A	Y	F	MP	1
268	EC 10483	A	NA	A	A	BY	F	MP	1
269	EC 34576	ST	Y	A	A	MY	F	MP	0
270	EC 196071	A	NA	P	P	BY	F	P	1
271	EC 43555	TW	BL	P	A	BY	F	N	1
272	EC 35753	A	NA	A	A	BY	F	MP	1
273	EC 107624	A	NA	A	A	LY	F	MP	0
274	EC 104492	A	NA	A	A	MY	F	MP	2
275	EC 86444	TW	BL	P	A	MY	F	N	1
276	EC 97248	A	NA	A	A	MY	F	MP	2
277	EC 102011	TW	BL	A	A	MY	F	N	2
278	EC 102353	ST	Y	P	A	MY	F	MP	2
279	EC 16931	TW	BR	P	A	BY	F	N	0
280	EC 54837	ST	Y	A	A	BY	F		2
281	EC 108437	ST	Y	A	A	MY	F	P	2
282	EC 57651	TW	BL	A	A	BY	F	MP	2
283	EC 178960	ST	BR	P	A	BY	F	N	1
284	EC 104006	A	NA	A	A	BY	F	MP	2
285	EC 102643	A	NA	P	P	BY	F		0

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 46	ch 47	ch 48	ch 49	ch 50	ch 51	ch 52	ch53
286	EC 10448	A	NA	A	A	MY	F	VN	0
287	EC 97520	TW	BL	P	A	MY	F	MP	0
288	EC 82355	TW	BL	A	A	MY	F	VN	0
289	EC 96576	TW	BR	A	A	LY	F	VN	0
290	EC 107324	ST	Y	A	A	LY	F		0
291	EC 466859	ST	Y	A	A	MY	F	VN	0
292	EC 130748	TW	BR	A	A	LY	F	VN	0
293	EC 107221	ST	Y	P	A	MY	F	P	0
294	EC 109221	TW	BL	P	A	BY	F	MP	0
295	EC 102348	A	NA	P	A	MY	F	P	0
296	EC 108586	A	NA	A	A	LY	F		2
297	EC 133510	ST	BR	P	A	BY	F	N	2
298	EC 100758	A	NA	A	A	MY	F	P	0
299	EC 57661	A	NA	A	A	MY	F	N	0
300	EC 131050	ST	Y	A	A	LY	F	MP	0
301	EC 107541	ST	Y	A	A	BY	F	MP	0
302	EC 54836	ST	Y	A	A	BY	F	MP	0
303	EC 108124	A	NA	A	A	MY	F	MP	0
304	EC 29049	A	NA	A	A	LY	F	P	2
305	EC 16695	ST	BL	A	A	MY	F	VN	2
306	EC 178960	ST	BL	A	A	MY	F	N	2
307	EC 58531	TW	BL	P	A	MY	F	N	3
308	EC 9884	TW	BR	P	A	MY	F	MP	0
309	EC 9269	A	NA	P	A	BY	F	MP	0
310	EC 15969	ST	Y	A	A	MY	F	MP	0
311	EC 16967	A	NA	P	A	LY	F	P	0
312	EC 9970	ST	Y	A	A	BY	F	P	0
313	EC 86444	ST	BR	P	A	MY	F	MP	0
314	EC 107022	A	NA	P	A	MY	F	MP	0
315	EC 4438	ST	BL	A	A	LY	F	N	0
316	EC 28815	A	NA	A	A	BY	F	MP	0
317	EC 310507	ST	BL	P	A	BY	F	P	0
318	EC 28804	A	NA	A	A	LY	F	N	2
319	EC 104472	TW	BL	A	A	MB	F	MP	2
320	EC 70924	TW	BL	P	P	MY	F	P	2



## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 46	ch 47	ch 48	ch 49	ch 50	ch 51	ch 52	ch53
321	EC 4721	A	NA	A	A	BY	F	N	0
322	EC 96548	A	NA	A	A	LY	F	VN	0
323	EC 108602	A	NA	P	A	MY	F	MP	1
324	EC 130646	ST	Y	A	A	MY	F	VN	0
325	EC 108648	A	NA	P	A	MY	F	MP	0
326	EC 159606	TW	BL	A	A	MB	F	N	0
327	EC 5681	TW	BL	P	A	BY	F	N	0
328	EC 182972	A	NA	P	A	BY	F	MP	2
329	EC 96592	ST	BR	A	A	MY	F	N	0
330	EC 108620	TW	BL	P	A	MY	F	N	0
331	EC 313801	A	NA	A	A	MY	F	N	0
332	EC 159073	A	NA	P	A	MY	F	MP	0
333	EC 131290	TW	BL	P	A	BY	F	N	0
334	EC 1249	A	NA	P	A	MB	F	MP	0
335	EC 179872	ST	BR	A	A	MY	F	MP	0
336	EC 112034	ST	BR	A	A	MY	F	MP	0
337	EC 96540								0
338	EC 182972	A	NA	A	A	BY	F	MP	0
339	EC 117069	ST	Y	A	A	MY	F		0
340	EC 310506	TW	BL	P	A	BY	F	MP	0
341	EC 96583	A	NA	A	A	BY	F	MP	2
342	EC 24900	A	NA	A	A	MY	F		1
343	EC 140599	W	Y	A	A	MY	F	MP	2
344	EC 109282	TW	BL	P	A	BY	F	MP	0
345	EC 310504	A	NA	A	A	LY	F	N	0
346	EC 310509	TW	BL	S	S	MY	F	N	0
347	EC 109232	A	NA	A	A	MB	F	P	0
348	EC 107017	TW	BL	P	A	LY	F	P	2
349	EC 107534	A	NA	A	A	LY	F	MP	0
350	EC 131313	TW	BL	P	A	BY	F	P	0
351	EC 16183	A	NA	A	A	MY	F	N	1
352	EC 131306	ST	BL	A	A	MY	F	N	0
353	EC 108656	A	NA	P	A	BY	F	MP	0
354	EC 109667	ST	Y	A	A	MY	F		0
355	EC 108451	TW	BL	A	A	MY	F	VN	0

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 46	ch 47	ch 48	ch 49	ch 50	ch 51	ch 52	ch53
356	EC 117406	TW	BrBl	A	A	MY	F	N	2
357	EC 108603	A	NA	A	A	MY	F	N	0
358	EC 159070	ST	Y	A	A	MY	F	MP	2
359	EC 310506	ST	Y	P	A	LY	F	N	0
360	EC 179824	A	NA	A	A	BY	F	N	1
361	EC 162643	A	NA	A	A	BY	F	MP	0
362	EC 131532	TW	BL	A	A	LY	F	MP	0
363	EC 22023	A	NA	A	A	LY	F	P	0
364	EC 109348	A	NA	A	A	MY	F	P	1
365	EC 10847	A	NA	A	A	MY	F	MP	0
366	EC 130648	A	NA	A	A	MY	F	MP	3
367	EC 140899	ST	BR	A	A	MY	F	MP	0
368	EC 130503	ST	Y	A	A	MY	F	N	0
369	EC 130646	TW	BR	A	A	MY	F	MP	2
370	EC 133316	TW	BrBl	A	A	LY	F	MP	2
371	EC 57248	A	NA	A	A	MY	F	N	1
372	EC 183173	TW	BL	A	A	BY	F	VN	3
373	EC 159069	ST	BY	A	A	MY	F	MP	2
374	EC 16787	TW	BL	A	A	MY	F	VN	0
375	EC 104599	ST	BY	A	A	MY	F	MP	0
376	EC 131313	TW	BL	A	A	LY	F	P	2
377	IGO 562	A	NA	A	A	MY	F	N	0
378	IGO 14	TW	BL	P	A	MY	F	VN	0
379	IGO 132	ST	Y	A	A	MY	F	MP	2
380	IGO 74	TW	BL	P	A	MY	F	N	4
381	IGO 242	TW	BL	A	A	LY	F	N	0
382	IGO 543	ST	Y	P	A	MY	F	MP	2
383	IGO 570	ST	BL	A	A	MY	F	P	2
384	IGO 536	TW	BL	A	A	BY	F	VN	4
385	IGO 725	ST	BR	A	A	MY	F	N	2
386	IGO 374	ST	BR	P	A	BY	F	N	2
387	IGO 371	A	NA	A	A	BY	F	N	2
388	IGO 586	ST	Y	A	A	LY	F	VN	0
389	IGO 1096	ST	Y	A	A	MY	F	VN	0
390	IGO 210	TW	BL	A	A	MY	F	N	0
391	IGO 474	ST	Y	A	A	BY	F		0
392	IGO 460	ST	Y	A	A	MY	F	MP	0
393	IGO 592	A	NA	P	A	LY	F	VN	2

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 46	ch 47	ch 48	ch 49	ch 50	ch 51	ch 52	ch53
394	IGO 510	TW	BL	P	P	MY	F	N	0
395	IGO 377	ST	BR	A	A	LY	F	N	0
396	IGO 52	ST	BR	A	A	MY	F	VN	0
397	IGO 262	TW	BL	P	A	BY	F	VN	4
398	IGO 489	A	NA	P	A	BY	F	VN	0
399	IGO 506	A	NA	A	A	BY	F	N	0
400	IGO 266	ST	Y	P	A	MY	F	N	0
401	IGO 571	TW	BR	A	A	MY	F		0
402	IGO 518	ST	Y	A	A	MY	F	N	0
403	IGO 499	TW	BL	A	A	BY	F	N	3
404	IGO 1040	ST	BL	A	A	MY	F	MP	3
405	IGO 456	ST	BR	P	A	MY	F	N	3
406	IGO 1110	A	NA	A	A	BY	F	N	3
407	IGO 557	A	NA	A	A	MY	F	MP	0
408	IGO 532	ST	Y	A	A	BY	F	VN	0
409	IGO 590	TW	BR	P	P	BY	F	VN	0
410	IGO 724	TW	BL	P	P	BY	SAB	VP	2
411	IGO 480	TW	BL	P	P	BY	F	N	0
412	IGO 1305	TW	BL	P	P	LY	F	VN	0
413	IGO 243	ST	Y	A	P	MY	F	VN	0
414	IGO 2650	TW	BR	P	P	MY	AB	N	0
415	IGO 491	TW	BL	P	P	MY	SAB	VP	1
416	IGO 2670	TW	BL	P	A	BY	AB	P	1
417	IGO 597	A	NA	A	A	LY	F	VN	4
418	IGO 466	TW	BL	A	P	MY	F	P	0
419	IGO 560	TW	BL	P	P	BR	AB	MP	0
420	IGO 903	TW	BR	A	P	MY	F	MP	0
421	IGO 1092	TW	BL	P	A	LY	F	P	0
422	IGO 1310	TW	BL	P	A	MY	F	P	0
423	IGO 3946	TW	BL	P	P	MY	F	N	0
424	IGO 1309	A	NA	A	P	DB	F	N	2
425	IGO 3065	TW	BL	A	P	MY	F	MP	2
426	IGO 3972	TW	BL	P	P	LY	AB	N	0
427	IGO 1319	TW	BL	P	P	MY	F	N	0
428	IGO 1079	TW	BR	P	P	MY	F	P	0
429	IGO 519	TW	BL	A	P	LY	F	VN	0
430	IGO 368	TW	BL	P	P	BY	F	N	3
431	IGO 1302	TW	BR	A	A	MY	F	MP	1

## IGFRI Oat Germplasm Catalogue

S.No.	Acc.no.	ch 46	ch 47	ch 48	ch 49	ch 50	ch 51	ch 52	ch53
432	IGO 1257	TW	BR	A	A	BY	F	N	3
433	IGO 1230	ST	Y	A	A	MY	F	MP	0
434	IGO 668	TW	BL	P	P	BY	F	N	0
435	IGO 2842	TW	BL	A	P	MY	AB	MP	0
436	IGO 666	TW	BL	P	P	BY	F	VN	0
437	IGO 2650	TW	BL	A	P	BY	F	MP	0
438	IGO 790	TW	BL	P	P	MY	F	N	0
439	IGO 1327	TW	BL	P	P	MY	AB	MP	0
440	IGO 524	TW	BL	P	A	BY	F	N	3
441	IGO 1249	TW	BR	A	A	BY	F	N	3
442	IGO 1219	TW	BL	P	P	BIY	AB	MP	2
443	IGO 3012	TW	BL	A	A	BY	F	N	4
444	IGO 3013	TW	BL	P	P	MY	F	P	2
445	IGO 1116	TW	BL	A	P	MY	F	P	4
446	IGO 2118	TW	BL	P	A	BY	F	N	1
447	IGO 1094	TW	BL	P	P	BIY	AB	MP	0
448	IGO 1109	TW	BL	P	A	BIY	AB	N	3
449	IGO 1324	TW	BL	P	A	MY	F	N	0
450	IGO 1198	TW	BL	A	P	LY	F	VN	0
451	IGO 1120	TW	BL	P	P	MY	SAB	VN	0
452	IGO 671	TW	BL	P	P	MY	F	N	0
453	IGO 728	TW	BL	P	P	BIY	AB	MP	0
454	IGO 903	TW	BL	P	P	BIY	AB	MP	2
455	IGO 1212	TW	BR	P	A	MY	F	VN	2
456	IGO 1328	TW	BL	P	A	BY	F	N	0

ch 46 = Awn nature

ch 50 = Lemma colour

ch 49 = Basal hairiness

BR = Brown

Y = Yellow

LY = Light Yellow

ch 52 = Seed plumpness

N = Narrow

VN = Very Narrow

MP = Medium Plump

3 = Moderately resistance

ch 47 = Awn colour

Tw = Twisted

BY = Brownish Yellow

A = Absent

P = Present

CY = Creamish Yellow

ch 53 = Leaf blight disease incidence

0 = Immune

1=Highly Resistance

2= Resistance

4 = Susceptible

ch 48 = Lemma hairiness

BL = Black

St = Straight

MY = Medium Yellow

BIY = Blackish Yellow

ch 51 = Spikelet separation

F = Fracture

AB = Abcission

SAB = Semi abcission

P = Plump

5 = Highly susceptible

Table : Summary of statistics for different morphological traits and yield in different accessions

	Days to 50 % flowering	Days to Maturity	Plant height	Number of leaves	Leaf length	Leaf width	Internode length	Tillers/ plant	Stem girth
<b>Min</b>	74.00	118.00	68.00	3.10	22.20	1.11	9.30	3.40	0.38
<b>MAX</b>	131.00	163.00	173.00	8.30	59.20	2.95	40.20	24.30	2.65
<b>Average</b>	99.53	133.64	107.93	4.96	38.98	1.83	19.59	9.55	0.70
<b>Skewnwss</b>	0.41	0.88	0.35	0.63	0.35	0.68	0.23	1.16	4.86
<b>Kurtosis</b>	-0.23	0.83	0.47	0.89	-0.30	0.50	0.32	1.71	46.04
<b>ave dev</b>	8.83	6.21	13.49	0.61	5.48	0.25	3.74	2.73	0.11
<b>SD</b>	10.96	7.88	17.26	0.79	6.74	0.32	4.62	3.57	0.17
<b>Variance</b>	120.13	62.15	298.04	0.62	45.44	0.10	21.32	12.77	0.03
	Green Fodder Yield	Dry fodder Yield	Flag leaf length	Flag leaf width	Peduncle length	Axis length	Axis branch Number	Spikelets / panicle	Florets/ panicle
<b>Min</b>	44.00	7.50	11.50	1.12	12.00	18.60	4.80	14.70	24.00
<b>MAX</b>	620.00	92.80	49.80	3.59	63.10	60.20	10.90	48.70	163.00
<b>Average</b>	185.79	32.11	27.00	1.97	34.91	36.07	7.49	26.71	76.85
<b>Skewnwss</b>	1.49	1.18	0.39	0.97	0.14	0.19	0.45	0.68	0.85
<b>Kurtosis</b>	3.54	1.77	-0.19	1.65	0.34	-0.11	0.08	1.94	0.87
<b>ave dev</b>	65.96	10.62	5.36	0.30	6.57	5.37	0.89	3.41	18.41
<b>SD</b>	87.92	14.01	6.59	0.39	8.38	6.65	1.12	4.48	23.90
<b>Variance</b>	7729.96	196.34	43.44	0.15	70.23	44.16	1.26	20.07	571.21

Table : Summary of statistics for different morphological traits and yield in different accessions (contd.)

	Outer glume length	Outer glume width	1000 seed weight	Seed length	Seed width	1st cut GFY/ m row	1st cut Tiller no./m row	1st cut DFY	2nd cut GFY / m row
Min	1.80	0.50	10.00	0.90	0.14	17.00	24.00	6.70	149.00
MAX	4.70	1.30	76.00	2.40	0.57	882.00	165.00	124.50	1897.00
Average	2.76	0.76	30.96	1.45	0.28	160.43	75.86	24.98	607.93
Skewnwss	0.87	0.73	0.54	0.59	0.84	2.25	0.75	2.48	1.43
Kurtosis	0.75	1.04	0.82	0.69	2.41	9.99	0.55	8.64	2.34
ave dev	0.40	0.11	7.43	0.18	0.04	65.11	21.47	10.65	241.54
SD	0.50	0.13	9.29	0.23	0.06	91.55	27.74	15.68	319.29
Variance	0.25	0.02	86.26	0.05	0.00	8380.97	769.78	245.98	101947.34

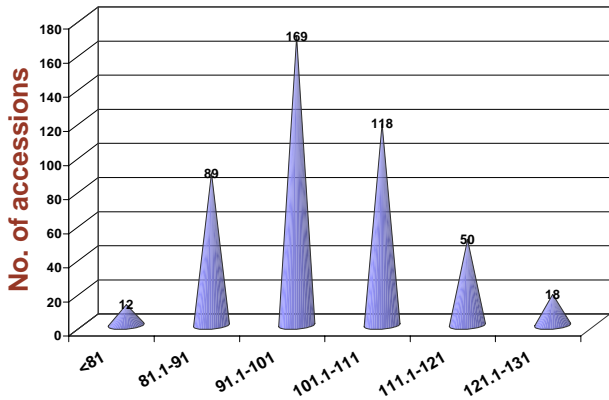
	2nd cut Tiller no./m row	2nd cut DFY/ m row	3rd cut GFY / m row	3rd cut tiller no./ m row	3rd cut DFY/ m row	Total GFY	Total DFY
Min	35.00	16.60	59.00	15.00	17.90	307.00	44.70
MAX	334.00	191.50	789.00	117.00	177.40	3032.00	348.60
Average	133.81	67.44	292.42	52.05	64.51	1060.77	156.93
Skewnwss	0.77	1.29	0.93	0.72	0.89	1.70	1.09
Kurtosis	0.65	1.99	0.57	0.56	0.75	3.84	1.89
avedev	38.91	23.42	109.45	13.83	23.52	312.44	36.66
SD	49.77	31.17	137.00	17.61	29.43	435.35	48.58
Variance	2477.43	971.66	18770.22	310.17	866.00	189526.22	2360.36

Table : Frequency distribution for different traits

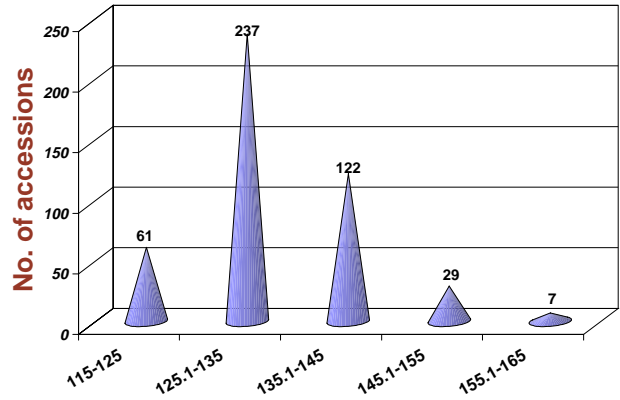
Days to 50% Tillers /plant flowering	Days to maturity		Plant height		Number of leaves		Leaf blade length		Leaf width		Internode length				
	NA	FG	NA	FG	NA	FG	NA	FG	NA	FG	NA	FG			
<81	12	115-125	61	<85	41	<4	52	<30	34	<1.5	63	<14	57	<6	65
81.1-91	89	125.1-135	237	85.1-105	170	4.1-5	213	30.1-40	231	1.51-1.9	232	14.1-21	219	6.1-11	267
91.1-101	169	135.1-145	122	105.1-125	180	5.1-6	151	40.1-50	163	1.91-2.3	121	21.1-28	166	11.1-16	97
101.1-111	118	145.1-155	29	125.1-145	56	6.1-7	35	50.1-60	28	2.31-2.7	34	28.1-35	13	16.1-21	22
111.1-121	50	155.1-165	7	145.1-165	7	7.1-8	4			2.71-3.1	6	35.1-42	1	21.1-26	5
121.1-131	18			165.1-185	2	8.1-9	1								
Stem girth Axis	Green Fodder		Dry Fodder		Flag leaf length		Flag leaf width		Flag leaf length		Peduncle length				
	NA	FG	NA	FG	NA	FG	NA	FG	NA	FG	NA	FG			
<0.8	367	<140	152	<20	80	<20	66	<1.5	34	<20	17	<25	24		
0.81-1.3	85	140.1-240	203	20.1-35	233	20.1-30	247	1.51-2	250	20.1-30	108	25.1-35	182		
1.31-1.8	2	240.1-340	75	35.1-50	87	30.1-40	130	2.1-2.5	132	30.1-40	212	35.1-45	208		
1.81-2.3	1	340.1-440	19	50.1-65	44	40.1-50	13	2.51-3	32	40.1-50	103	45.1-55	40		
2.31-2.8	1	440.1-540	3	65.1-80	7			3.1-3.5	6	50.1-60	12	55.1-65	2		
		540.1-640	4	80.1-95	5			>60	2		4				
Floret/panicle	Outer glume length		Outer glume width		1000 seed weight		Seed length		Seed width						
	NA	FG	NA	FG	NA	FG	NA	FG	NA	FG					
<50	49	<1.8	1	<0.5	13	<10	1	<1.2	85	<0.2	24				
50.1-80	241	18.1-2.4	143	0.51-0.75	228	10.1-20	52	1.2-1.6	294	0.2-0.3	303				
80.1-110	124	2.41-3	188	0.751-1	204	20.1-30	165	1.6-2	72	0.3-0.4	124				
110.1-140	35	3.1-3.6	104	1.1-1.25	9	30.1-40	157	2.1-2.4	5	0.4-0.5	3				
		3.61-4.21	14	1.251-1.5	2	40.1-50	69	0.5-0.6	2						
140.1-170	7	4.21-4.8	6			50.1-60	10								
						60.1-70	1								

FG = Frequency group NA = No. of accessions

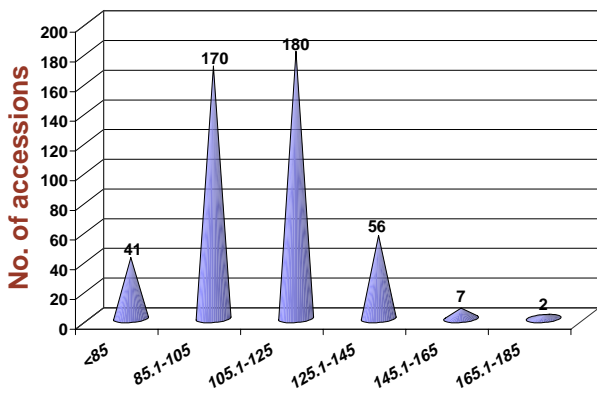
Frequency distribution graphs



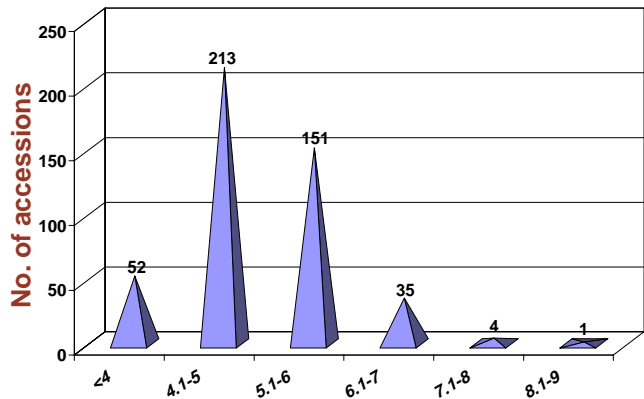
Frequency group  
Days to 50% flowering



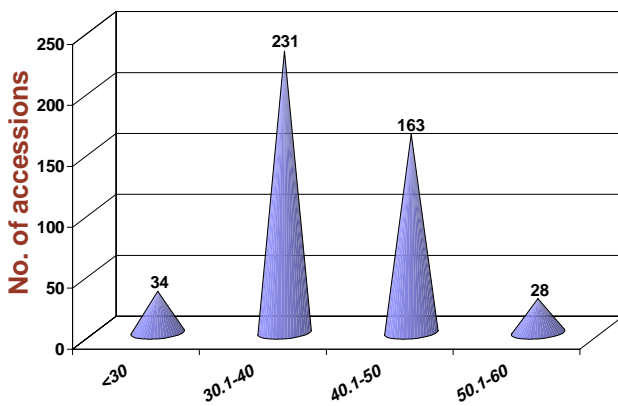
Frequency group  
Days to maturity



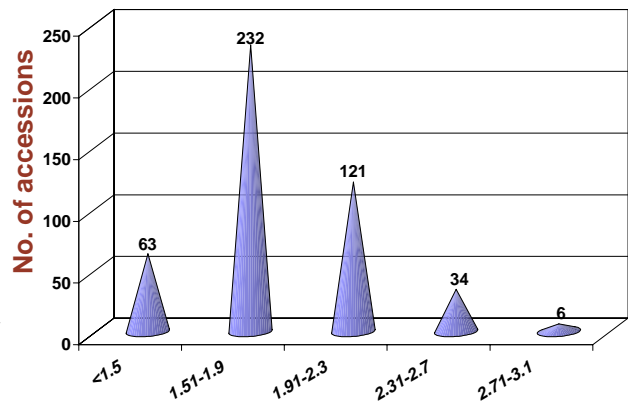
Frequency group  
Plant height



Frequency group  
Number of leaves/tiller



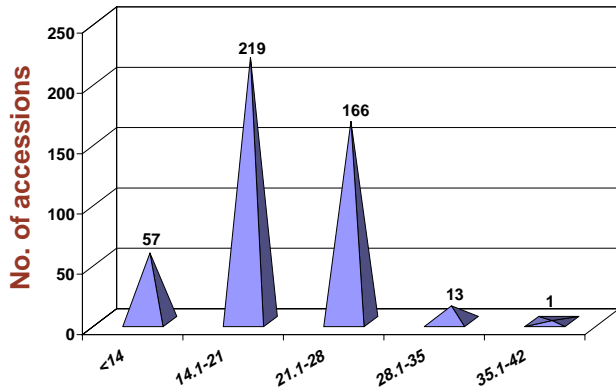
Frequency group  
Plant height



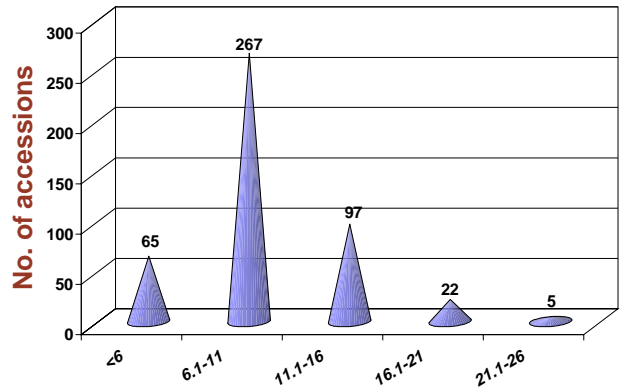
Frequency group  
Plant height



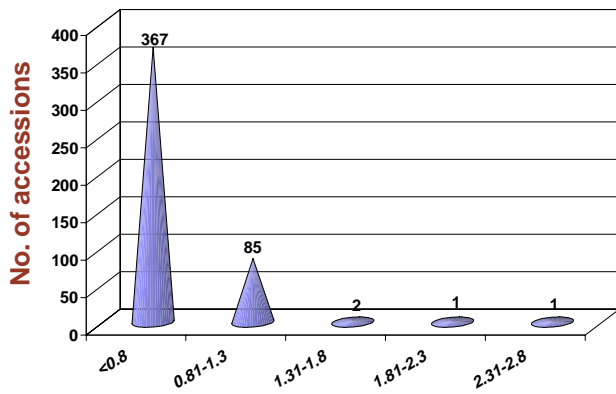
Frequency distribution graphs



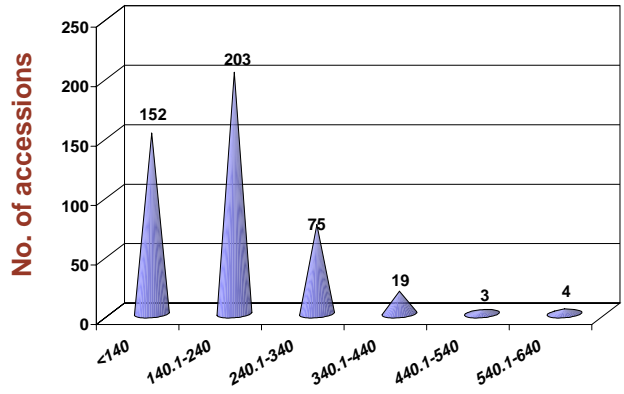
Frequency group  
Internode length



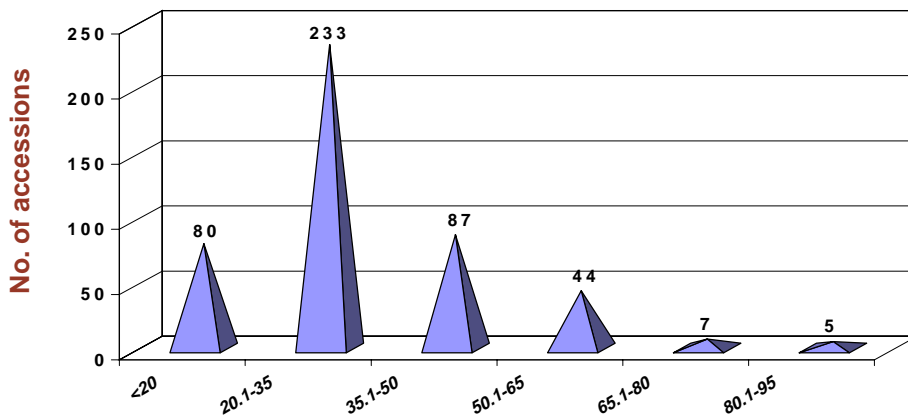
Frequency group  
Tillers



Frequency group  
Stem girth

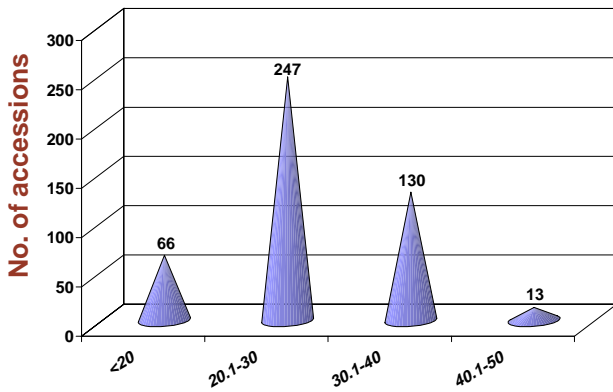


Frequency group  
GFY

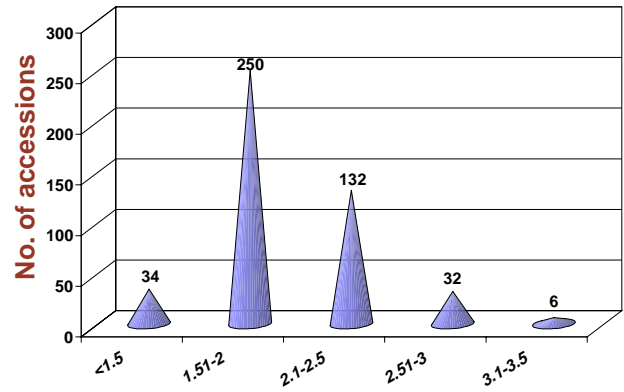


Frequency group  
DMY

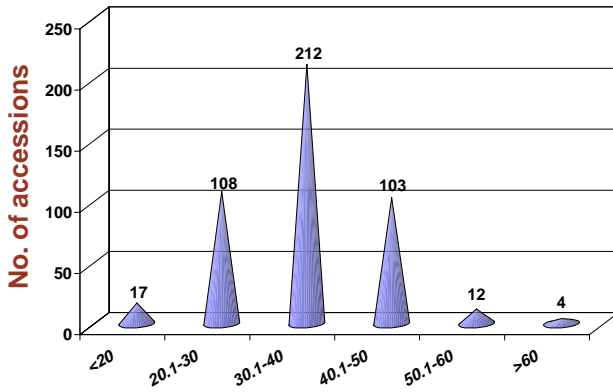
Frequency distribution graphs



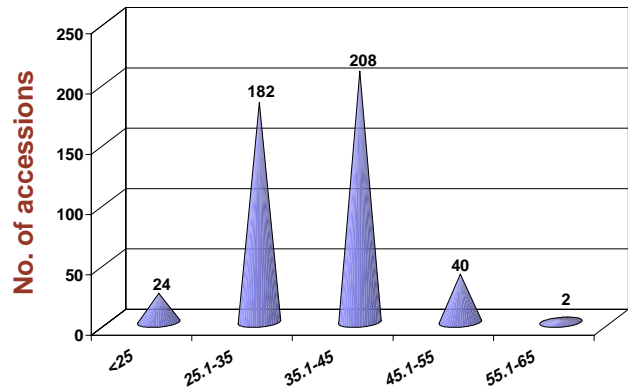
Frequency group  
Flag leaf length



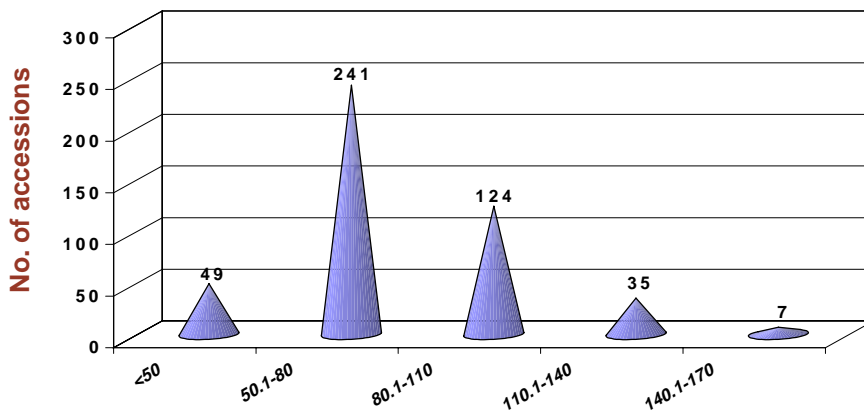
Frequency group  
Flag leaf width



Frequency group  
Peduncle length

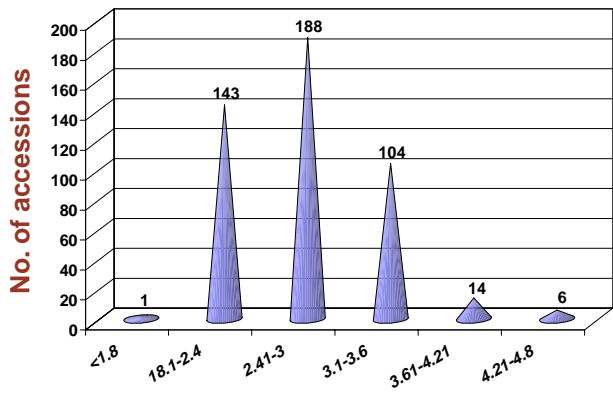


Frequency group  
Axis length

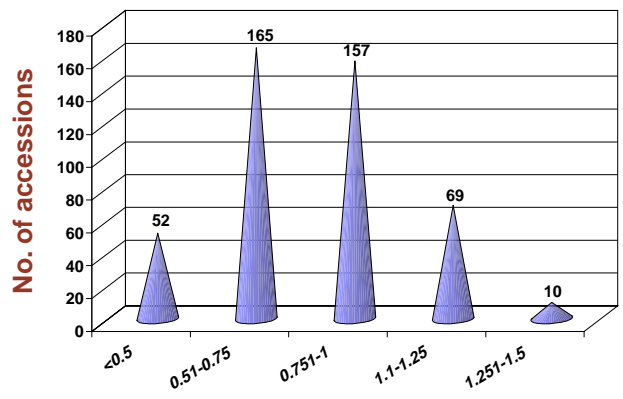


Frequency group  
Florets/panicle

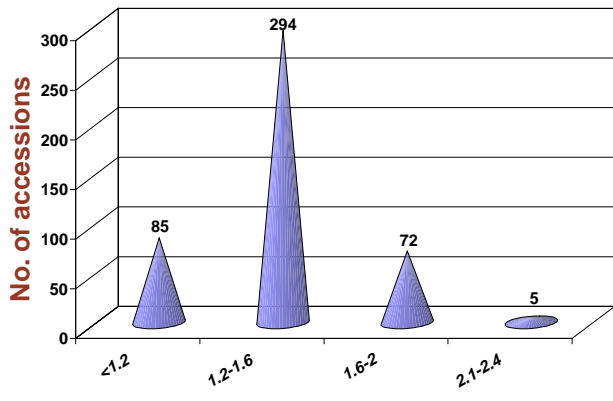
Frequency distribution graphs



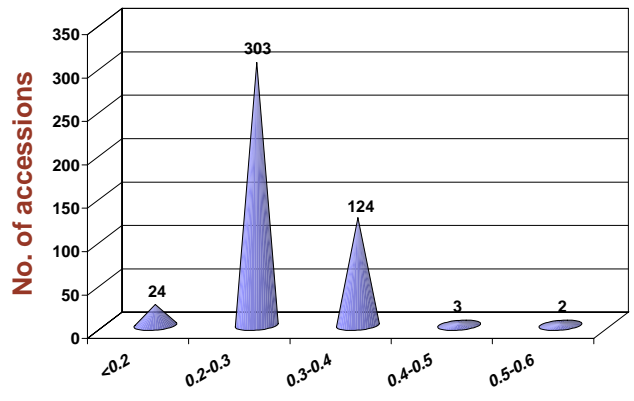
Frequency group  
Outer glume length



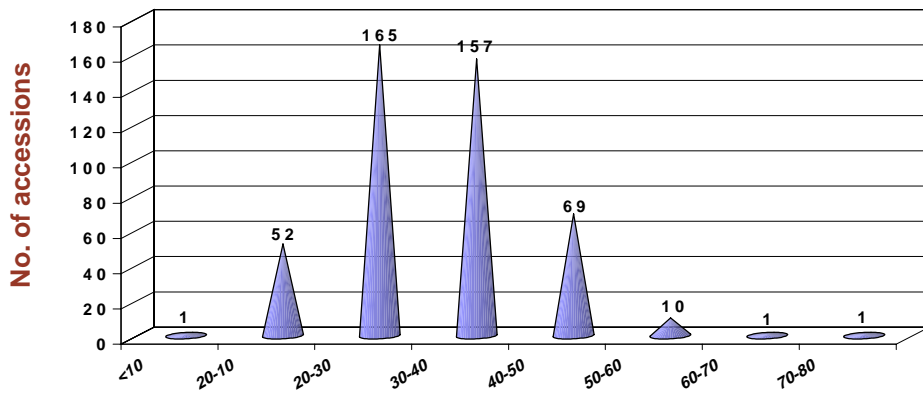
Frequency group  
Outer glume width



Frequency group  
Seed length



Frequency group  
Seed width



Frequency group  
1000 seed weight

**Table : Genotypes showing higher or lower values for specific traits.**

<b>Traits</b>	<b>Genotypes with serial number</b>
Days to 50 % flowering (<80 days)	207, 208, 210, 220
Days to 50 % flowering (>125 days)	3, 17, 99, 117, 131, 228, 329
Days to maturity (120 or < 120 days)	86, 177, 327, 335, 435
Days to maturity 150 or > 150 days)	55, 56, 58, 62, 63, 67, 106, 107, 111, 117, 130, 131, 171, 213, 228
Plant height (>150 cm)	45, 47, 376, 383, 384, 404
Plant height (<75 cm)	58, 141, 188, 234, 285, 326, 369, 430, 440, 443
Tiller number (>20)	77, 78, 79, 80, 99, 101, 102, 117, 239
Plant height (>100cm) and Tiller number (>17)	41, 78, 81, 90, 99, 101, 102, 103, 117, 119, 239
Number of leaves (>7.5)	131, 322
Leaf length (>50 cm)	4, 5, 9, 12, 23, 29, 42, 47, 75, 120, 124, 211, 214, 224, 376, 383, 384, 385, 396, 401, 404, 420, 432, 436, 442, 446, 451, 454
Leaf width (>2.5cm)	4, 5, 6, 19, 22, 42, 73, 97, 104, 122, 140, 143, 155, 171, 367, 368, 376, 396
Leaf length (>50 cm) and Leaf width (>2.5cm)	4, 5, 42, 376, 396
Green fodder yield at 50 % flowering stage (>450g)	22, 42, 120, 124, 235, 239, 245
Dry Fodder Yield at 50 % flowering stage (>75 g)	42, 101, 117, 124, 235, 239
Green fodder yield (>450g) and Dry fodder yield (>75 g) at 50% flowering stage	42, 124, 235, 239
Total Green fodder yield under multicut system (>2500g)	103, 106, 110, 111, 118, 120, 122, 123
Total dry matter yield under multicut system (>300g)	52, 103, 106, 110, 111, 113, 118, 120
Total green fodder yield (>2500g) and total dry matter yield (>300g) under multicut system	103, 106, 110, 111, 118, 120



Variation in crop



Variation in leaves



Variation in crop



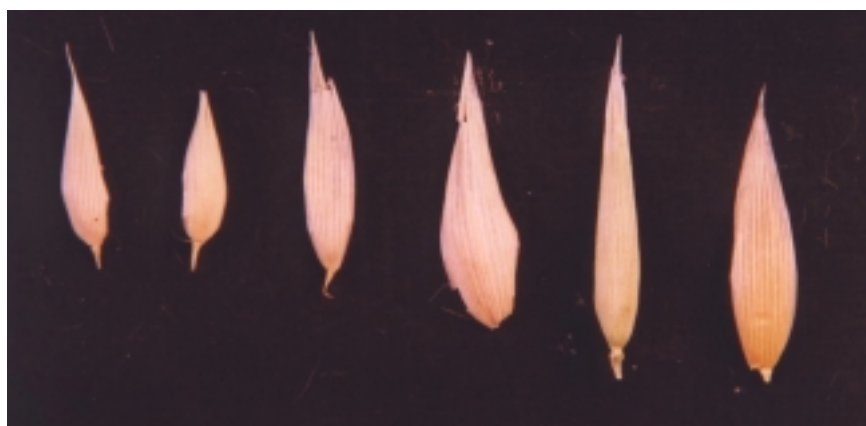
Variation in crop



Variation in spikelet character



Variation in panicle



Variation in glume



Variation in spikelet separation