

USDA PEANUT

Core Collection Catalog

Part-1



➤ Noelle L Anglin
➤ Oswaldo Chavez

➤ Stanley W. Dezern
➤ Lydia Calderon

➤ David L Pinnow
➤ Angie Lewis

➤ Gregory E MacDonald

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3.1.592	PI 478852	595
3.1.593	PI 478854	596
3.1.594	PI 478890	597
3.1.595	PI 481744	598
3.1.596	PI 481749	599
3.1.597	PI 481756	600
3.1.598	PI 481761	601
3.1.599	PI 481765	602
3.1.600	PI 481768	603
3.1.601	PI 481772	604
3.1.602	PI 481774	605
3.1.603	PI 481791	606
3.1.604	PI 481795	607
3.1.605	PI 481802	608
3.1.606	PI 482070	609
3.1.607	PI 482079	610
3.1.608	PI 482081	611
3.1.609	PI 482089	612
3.1.610	PI 482091	613
3.1.611	PI 482120	614
3.1.612	PI 482124	615
3.1.613	PI 482125	616
3.1.614	PI 482133	617
3.1.615	PI 482142	618
3.1.616	PI 482168	619
3.1.617	PI 482189	620

3.1.618	PI 482195	621
3.1.619	PI 482209	622
3.1.620	PI 482210	623
3.1.621	PI 482212	624
3.1.622	PI 482223	625
3.1.623	PI 482239	626
3.1.624	PI 487555	627
3.1.625	PI 490367	628
3.1.626	PI 494783	629
3.1.627	PI 494795	630
3.1.628	PI 494808	631
3.1.629	PI 494813	632
3.1.630	PI 496401	633
3.1.631	PI 496406	634
3.1.632	PI 496422	635
3.1.633	PI 496436	636
3.1.634	PI 496448	637
3.1.635	PI 497407	638
3.1.636	PI 497426	639
3.1.637	PI 497429	640
3.1.638	PI 497599	641
3.1.639	PI 501987	642
3.1.640	PI 501995	643
3.1.641	PI 502018	644
3.1.642	PI 502024	645
3.1.643	PI 502028	646
3.1.644	PI 502040	647
3.1.645	PI 502093	648
3.1.646	PI 502111	649
3.1.647	PI 502116	650
3.1.648	PI 502120	651
3.1.649	PI 502126	652
3.1.650	PI 504614	653
3.1.651	PI 505573	654
3.1.652	PI 505965	655
3.1.653	PI 505975	656
3.1.654	PI 512247	657
3.1.655	PI 512251	658
3.1.656	PI 512273	659
3.2	<i>Arachis hypogaea</i> subsp. <i>fastigiata</i>	660
3.2.1	PI 501280	660
3.2.2	PI 501286	661
3.2.3	PI 508278	662
3.3	<i>Arachis hypogaea</i> subsp. <i>fastigiata</i> var. <i>aequatoriana</i>	663
3.3.1	PI 497631	663

3.4	<i>Arachis hypogaea</i> subsp. <i>fastigiata</i> var. <i>fastigiata</i>	664
3.4.1	PI 468350	664
3.4.2	PI 475863	665
3.4.3	PI 475872	666
3.4.4	PI 475913	667
3.4.5	PI 475918	668
3.4.6	PI 475968	669
3.4.7	PI 476025	670
3.4.8	PI 476081	671
3.4.9	PI 476089	672
3.4.10	PI 476156	673
3.4.11	PI 476205	674
3.4.12	PI 493310	675
3.4.13	PI 493329	676
3.4.14	PI 493331	677
3.4.15	PI 493332	678
3.4.16	PI 493342	679
3.4.17	PI 493356	680
3.4.18	PI 493358	681
3.4.19	PI 493380	682
3.4.20	PI 493381	683
3.4.21	PI 493396	684
3.4.22	PI 493420	685
3.4.23	PI 493425	686
3.4.24	PI 493443	687
3.4.25	PI 493456	688
3.4.26	PI 493467	689
3.4.27	PI 493468	690
3.4.28	PI 493487	691
3.4.29	PI 493504	692
3.4.30	PI 493506	693
3.4.31	PI 493512	694
3.4.32	PI 493521	695
3.4.33	PI 493536	696
3.4.34	PI 493547	697
3.4.35	PI 493550	698
3.4.36	PI 493559	699
3.4.37	PI 493562	700
3.4.38	PI 493580	701
3.4.39	PI 493581	702
3.4.40	PI 493595	703
3.4.41	PI 493615	704
3.4.42	PI 493631	705
3.4.43	PI 493643	706
3.4.44	PI 493661	707

3.4.45	PI 493667	708
3.4.46	PI 493668	709
3.4.47	PI 493671	710
3.4.48	PI 493693	711
3.4.49	PI 493706	712
3.4.50	PI 493710	713
3.4.51	PI 493717	714
3.4.52	PI 493721	715
3.4.53	PI 493727	716
3.4.54	PI 493729	717
3.4.55	PI 493735	718
3.4.56	PI 493748	719
3.4.57	PI 493750	720
3.4.58	PI 493754	721
3.4.59	PI 493755	722
3.4.60	PI 493780	723
3.4.61	PI 493799	724
3.4.62	PI 493800	725
3.4.63	PI 493815	726
3.4.64	PI 493830	727
3.4.65	PI 493846	728
3.4.66	PI 493847	729
3.4.67	PI 493850	730
3.4.68	PI 493852	731
3.4.69	PI 493880	732
3.4.70	PI 493891	733
3.4.71	PI 493896	734
3.4.72	PI 493906	735
3.4.73	PI 493911	736
3.4.74	PI 493913	737
3.4.75	PI 493937	738
3.4.76	PI 493938	739
3.4.77	PI 493994	740
3.4.78	PI 494002	741
3.4.79	PI 497277	742
3.4.80	PI 497459	743
3.4.81	PI 497460	744
3.4.82	PI 497495	745
3.4.83	PI 497513	746
3.4.84	PI 497517	747
3.4.85	PI 497521	748
3.4.86	PI 497522	749
3.4.87	PI 497587	750
3.4.88	PI 497588	751
3.4.89	PI 497610	752

3.4.90	PI 497639	753
3.4.91	PI 497640	754
3.4.92	PI 497648	755
3.4.93	PI 497660	756
3.4.94	PI 502020	757
3.5	<i>Arachis hypogaea</i> subsp. <i>fastigiata</i> var. <i>vulgaris</i>	758
3.5.1	PI 493942	758
3.5.2	PI 494013	759
3.5.3	PI 494018	760
3.5.4	PI 494029	761
3.5.5	PI 494034	762
3.5.6	PI 494049	763
3.5.7	PI 494053	764
3.5.8	PI 497489	765
3.6	<i>Arachis hypogaea</i> subsp. <i>hypogaea</i> var. <i>hypogaea</i>	766
3.6.1	PI 468195	766
3.6.2	PI 468213	767
3.6.3	PI 468219	768
3.6.4	PI 468250	769
3.6.5	PI 468252	770
3.6.6	PI 468271	771
3.6.7	PI 468280	772
3.6.8	PI 475849	773
3.6.9	PI 475851	774
3.6.10	PI 475861	775
3.6.11	PI 475866	776
3.6.12	PI 475903	777
3.6.13	PI 475931	778
3.6.14	PI 475966	779
3.6.15	PI 475971	780
3.6.16	PI 475982	781
3.6.17	PI 476093	782
3.6.18	PI 497254	783
3.6.19	PI 497317	784
3.6.20	PI 497318	785
3.6.21	PI 497323	786
3.6.22	PI 497342	787
3.6.23	PI 497351	788
3.6.24	PI 497391	789
3.6.25	PI 497395	790
3.6.26	PI 497405	791
3.6.27	PI 497410	792
3.6.28	PI 497420	793
3.6.29	PI 497461	794
3.6.30	PI 497462	795

3.6.31	PI 497480	796
3.6.32	PI 501272	797
3.7	Commercial standards	798
3.7.1	HW 136	798
3.7.2	Jupiter	799
3.7.3	PI 565452	800
3.7.4	PI 631176	801
3.7.5	PI 642850	802
3.7.6	PI 644220	803
3.7.7	PI 651853	804
3.7.8	PI 652938	805
3.7.9	PI 654368	806
3.7.10	PI 659502	807
3.7.11	PI 663993	808
3.7.12	PI 665017	809
3.7.13	PI 665474	810
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4 References

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1. Introduction

The USDA ARS Plant Genetic Resources Conservation Unit (PGRCU) in Griffin, GA (USA) maintains a large *Arachis* germplasm collection which consisted of 9,321 cultivated peanut and 655 wild species, when this project was initiated. The germplasm collection is derived of lines collected from 102 different countries around the world with approximately 44% collected in South America where peanut originated. The cultivated peanut collection is solely maintained as seed with each seed accession divided into two samples which are stored at 4C and -18C. The 4C samples are maintained at 25% relative humidity and are primarily used to distribute seeds to requestors worldwide, whereas the -18C are stored in hermetically sealed bags for long term storage/preservation (Barkley et al, 2016).

In 2013, a large-scale project to comprehensively catalog the core and mini core collection was initiated. Core collections are subsets of approximately 10% of the total germplasm collection and consist of accessions that represent the majority of the diversity with little genetic redundancy. The USDA peanut core collection was derived by Holbrook et al (1993) after an evaluation of all the USDA cultivated peanut germplasm. The mini core was developed later (Holbrook et al, 2005) to help researchers evaluate traits of importance on a smaller more manageable subset. This project set out to phenotype and genotype the entire core collection to facilitate better use of the germplasm collection and uncover novel properties of each accession. Further, this evaluation was undertaken to associate molecular markers to important agronomic traits for rapid selection in breeding.

The entire core/mini core collection was planted in 2013 – 2015 at the University of Florida Institute of Food and Agricultural Sciences (UF/IFAS) Plant Science Research and Education Unit in Citra, Florida using an augmented design with replications. The mostly widely grown normal and high oleic commercial varieties (crop years 2011 – 2013) from each market type (runner, Spanish, Virginia, and Valencia) were planted in conjunction with the core and mini core. These were chosen in consultation with the USA peanut breeders to provide direct comparisons of important agronomic traits such as yield and grade within the same environmental parameters. During this project, pictures were taken to document unique traits of each accession and this catalog represents the considerable effort from the entire team with the goal of comprehensively cataloging the core collection in its entirety. Here we present a catalog of pictures from the USDA peanut mini core collection.

2. Acknowledgements

We gratefully acknowledge Dr Roy Pittman for all the big out of the box ideas and all the laughs, you are truly missed and imparted an undying passion for working with peanut. Thanks DoC for everything big and small, including instilling unwavering hope that your belief is still achievable - that nothing is insurmountable (LF), including a massive project such as this, that many thought were not at all possible to finish. All is possible with the right tools and a bit of stubbornness. We gratefully appreciate all the support and advice from the peanut community and to all the authors helping contribute to the picture taking to produce this comprehensive catalog. We sincerely thank all the crew especially Jim Boyer at the Plant Science Research and Education Unit with the Institute of Food and Agricultural Sciences at the University of Florida for their help with the day to day management of this large scale grow out. The authors also want to thank The Peanut Foundation (TPF), the Georgia Peanut Commission, and Florida Peanut Producers for their support, without which this work would not have been possible.

3. Catalog

Table 3.1 Summary of accessions by GRIN taxonomy

GRIN taxonomy	Accessions
<i>Arachis hypogaea</i> L.	665
<i>Arachis hypogaea</i> L. subsp. <i>fastigiata</i> Waldron	3
<i>Arachis hypogaea</i> L. subsp. <i>fastigiata</i> Waldron var. <i>aequatoriana</i> Krapov. & W. C. Greg.	1
<i>Arachis hypogaea</i> L. subsp. <i>fastigiata</i> Waldron var. <i>fastigiata</i> (Waldron) Krapov. & W. C. Greg.	96
<i>Arachis hypogaea</i> L. subsp. <i>fastigiata</i> Waldron var. <i>vulgaris</i> Harz	8
<i>Arachis hypogaea</i> L. subsp. <i>hypogaea</i>	3
<i>Arachis hypogaea</i> L. subsp. <i>hypogaea</i> var. <i>hypogaea</i>	32
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Passport Information Key (adapted from the USDA-ARS U.S. National Plant Germplasm System for peanut - <https://npgsweb.ars-grin.gov/gringlobal/crop?id=86>)

Accession ID: refers to the Plant Introduction (PI) number associated with the USDA –ARS GRIN database for peanut.

Accession Name: refers to the local name given or referenced to when entered into the germplasm repository

Taxonomy: refers to the botanical description – all peanut accessions are the allotetraploid *Arachis hypogaea* L.; however, some are further classified into subspecies *fastigiata* with 2 varieties (var. *fastigiata* or var. *vulgaris*) or subspecies *hypogaea* with var. *hypogaea*.

Country of Origin: country from where the entry was collected or donated from, if unknown NA (not available)

Grin Market Type: refers to one of four market-types of peanut classified by USDA – Valencia, Spanish, Runner or Virginia. This classification based on uses – taste, oil content, roasting characteristics, etc.