

**SUMMARY OF THE RESULT OF SHORTLISTING TEST HELD ON 02.12.2021**

<b>S. No.</b>	<b>Discipline</b>	<b>Eligible candidates</b>	<b>Appeared candidates</b>	<b>Qualifying candidates</b>	<b>Percent Qualified</b>
1	Agronomy	32	27	13	48.15
2	Biochemistry	21	19	5	26.32
3	Biotechnology	33	28	13	46.43
4	Chemistry	28	16	1	6.25
5	Entomology	33	25	6	24.00
6	Environmental Science	11	8	5	62.50
7	Food Science & Technology	17	13	6	46.15
8	Horticulture	17	13	4	30.77
9	Irrigation & Drainage	14	13	6	46.15
10	Pharmacy	21	14	2	14.29
11	Physics	18	10	1	10.00
12	Plant Breeding & Genetics	44	36	33	91.67
13	Plant Pathology	25	17	1	5.88
14	Soil Science	21	18	10	55.56
	<b>TOTAL</b>	<b>335</b>	<b>257</b>	<b>106</b>	<b>41.25</b>

Roll No.	Name	CNIC	Discipline	Marks
1263	Dr. Shahid Iqbal,	36103-3043992-1	Agronomy	84.37
1061	Dr. Farhena Aslam	32102-7444804-6	Agronomy	69.36
1259	Dr. Shahbaz Atta Tung	33100-2165651-7	Agronomy	69.07
1036	Dr. Asif Ameen,	32201-1468056-1	Agronomy	68.39
1261	Dr. Shahbaz Khan,	33202-5073953-2	Agronomy	66.75
1114	Dr. Muhammad Aamer	36402-5682404-5	Agronomy	63.42
1189	Dr. Muhammad Shareef,	32402-0837676-5	Agronomy	61.06
1163	Dr. Muhammad Kamran	33202-3817785-36	Agronomy	60.40
1028	Dr. Aqib Mahmood	31205-6668777-3	Agronomy	59.10
1015	Dr. Ahmad Nawaz	37203-7928435-3	Agronomy	57.44
1242	Dr. Saif Ali	31104-0553064-7	Agronomy	56.11
1131	Dr. Muhammad Anas	36102-3514866-7	Agronomy	53.74
1170	Dr. Muhammad Naeem	36102-9269248-5	Agronomy	52.09
1004	Dr. Abdul Hafeez	37201-8862871-3	Agronomy	48.10
1102	Dr. Mairaj Din	33302-5358109-3	Agronomy	45.79
1088	Dr. Imran Haider Khan	32102-0942428-9	Agronomy	45.40
1047	Dr. Basharat Ali,	35403-9494891-7	Agronomy	45.08
1231	Dr. Rana Nauman Shabbir	36302-1516153-1	Agronomy	43.77
1021	Dr. Alam Sher	33106-5461445-5	Agronomy	43.46
1199	Dr. M. Waqas Aslam Cheema	34601-1738894-3	Agronomy	43.09
1206	Dr. Muzammal Rehman	36502-9525249-9	Agronomy	42.81
1109	Dr. Mohsin Nawaz,	35502-0134756-5	Agronomy	42.13
1229	Dr. Rai Altaf Hussain	35103-0942526-9	Agronomy	40.81
1291	Dr. Zahoor Ahmad,	31201-9906116-5	Agronomy	36.15
1250	Dr. Sami Ullah	11201-0321533-3	Agronomy	29.16
1124	Dr. M. Ahsan Areeb	36302-9414332-1	Agronomy	24.85
1034	Dr. Asadullah,	45102-2122914-5	Agronomy	9.56
1160	Dr. M. Jamshed	38302-1231862-1	Biochemistry	82.71
1204	Dr. Nadia Afsheen	33100-2226655-8	Biochemistry	65.04
1127	Dr. Muhammad Ali	33100-0901548-7	Biochemistry	57.76
1238	Dr. Saba Riaz	34601-1577139-2	Biochemistry	54.09
1236	Dr. Saadiya Zia	37406-7094872-4	Biochemistry	53.11
1085	Dr. Humara Naz Majeed	33100-0912869-6	Biochemistry	45.80
1032	Dr. Arooj Arshad	33100-5611448-6	Biochemistry	44.44
1253	Dr. Samreen Rasool	33100-6470525-8	Biochemistry	44.38
1240	Dr. Sadia Aslam	33100-0557735-2	Biochemistry	44.36
1083	Dr. Huma Mehboob	33100-6266569-2	Biochemistry	42.81
1039	Dr. Awais Altaf	34101-6846835-5	Biochemistry	38.75
1081	Dr. Hooria Younas	35200-1412099-2	Biochemistry	38.15
1296	Dr. Zinayyera Subhani	38403-4786214-4	Biochemistry	35.82
1278	Dr. Tanzila Sahar	35302-2793668-2	Biochemistry	35.48
1233	Dr. Rozina Aslam	33100-6626256-8	Biochemistry	31.49
1050	Dr. Bilal Ahmed	35403-6857005-3	Biochemistry	29.51
1062	Dr. Farina Jamil	33100-7794141-6	Biochemistry	28.08
1300	Dr.Zanib Ahmed	33100-6172359-2	Biochemistry	27.80
1064	Dr. Farkhanda Yasmin	33100-0916257-2	Biochemistry	12.88
2031	Dr. Zunaira Afzal	33100-6659176-2	Biotechnology	74.05
2008	Dr. Usman Aslam	33100-6837935-1	Biotechnology	73.73
2033	Dr. Saad Serfraz	37405-7861842-9	Biotechnology	71.06
2010	Dr. Hafiz Mamoon Rehman	34602-8345926-3	Biotechnology	62.09
2030	Dr. M. Hassaan Khan	33102-7496270-1	Biotechnology	62.09
2023	Dr. Aisha Shahid	33102-7013433-8	Biotechnology	61.43
2006	Dr. Sundas Saher Mehmood	81302-0319405-8	Biotechnology	59.05
2014	Dr. Romana Iftikhar	35403-7068032-4	Biotechnology	56.75

2019	Dr. Irfan Ali	34101-2638856-1	Biotechnology	52.78
2018	Dr. Rubab Zahra Naqvi	33100-1801549-8	Biotechnology	52.45
2021	Dr. Muhammad Rauf	38303-0980804-9	Biotechnology	52.41
2025	Dr. Muhammad Ismail	33100-7859436-1	Biotechnology	50.42
2028	Dr. M. Amjad Nawaz,	38403-9484692-1	Biotechnology	49.77
2029	Dr. Noroza Umer	35202-0385208-4	Biotechnology	48.45
2034	Dr. Sher Muhammad	35302-3706461-3	Biotechnology	46.13
2001	Dr. Aisha Butt	35403-1084092-2	Biotechnology	46.12
2004	Dr. Farkhanda Yasmin,	33100-0916257-2	Biotechnology	43.14
2012	Dr. Shakeel Ahmad,	34301-1542446-1	Biotechnology	42.78
2011	Dr. Nashaiman Pervaiz	35501-0146974-4	Biotechnology	42.75
2020	Dr. Saba Zafar	36302-9117843-6	Biotechnology	42.74
2009	Dr. Salma Siddique	33303-1835109-2	Biotechnology	42.48
2017	Dr. Syeda Sadia Najam	37101-8713826-0	Biotechnology	42.43
2007	Dr. Sidra Tul Muntaha	13302-4727133-0	Biotechnology	41.09
2027	Dr. Abha Zaka	33105-4985528-2	Biotechnology	41.07
2026	Dr. Ahmad Raza	33100-8070292-3	Biotechnology	39.81
2003	Dr. Shaista Shafiq	33100-0917876-4	Biotechnology	33.07
2005	Dr. M. Hayder Bin Khalid,	35404-4632670-9	Biotechnology	32.14
2002	Dr. Momina Hussain	33100-4634339-8	Biotechnology	30.51
1251	Dr. Sana Sadaf	37102-6850487-2	Chemistry	58.42
1118	Dr. M. Adnan Ayub	33100-0472056-7	Chemistry	45.77
1210	Dr. Nasir Abbas	33303-8482743-9	Chemistry	42.72
1037	Dr. Asma Hanif	33100-1406580-6	Chemistry	41.74
1065	Dr. Ghulam Ali	12103-6937197-5	Chemistry	39.40
1302	Mr. M. Idrees Jilani	33100-6429256-1	Chemistry	37.14
1128	Dr. M. Ali Mohsin	37406-7082277-5	Chemistry	36.15
1299	Dr. Zunera Umar	35202-3343190-6	Chemistry	32.15
1178	Dr. Muhammad Riaz	33105-0352894-1	Chemistry	27.84
1279	Dr. Toheed Ahmed	42501-3597137-7	Chemistry	23.84
1018	Dr. Aisha Ashraf	35403-2203199-4	Chemistry	23.09
1147	Dr. M. Farid ul Haq	38403-6102108-1	Chemistry	19.54
1214	Dr. Nusrat Shaheen	38302-5752486-6	Chemistry	19.20
1044	Dr. Ayesha Mahmood	33100-3712429-0	Chemistry	17.48
1077	Dr. Hafiza Ghazala Ashraf	33102-6611869-4	Chemistry	16.21
1052	Dr. Bushra Iqbal	33202-5383242-2	Chemistry	15.55
1266	Dr. Sidra Tul Muntaha	35102-0101347-4	Entomology	60.05
1063	Dr. Fiaz Hussain	32203-1235433-7	Entomology	56.10
1196	Dr. Muhammad Umair Sial	36302-3034814-7	Entomology	54.41
1205	Dr. Mujahid Manzoor	32203-5010412-3	Entomology	53.45
1270	Dr. Summar Sohail	35102-0244563-2	Entomology	53.43
1005	Dr. Abdul Hanan,	33100-5985156-3	Entomology	51.12
1187	Dr. M. Salman Hameed	32102-6337746-5	Entomology	47.11
1148	Dr. Muhammad Fiaz	36101-6757118-9	Entomology	47.08
1121	Dr. M. Adnan Rashid	33101-1331710-1	Entomology	45.47
1003	Dr. Abdul Basit	32302-6272698-1	Entomology	45.07
1273	Dr. Talha Ali Chohan	36302-2569955-9	Entomology	43.10
1258	Dr. Shahbaz Ali,	31302-4482642-3	Entomology	40.78
1176	Dr. Muhammad Qasim	33100-4347027-5	Entomology	40.15
1275	Dr. Tahir Shafeeq,	35302-9994958-9	Entomology	39.78
1078	Dr. Hassan Naveed	33201-4595459-3	Entomology	38.09
1181	Dr. M. Rizwan ul Haq	33100-8395605-5	Entomology	37.15
1080	Dr. Hoor Shaina	35403-16202378-0	Entomology	35.78
1282	Dr. Umar Anwar Awan	33102-4973761-7	Entomology	34.12
1172	Dr. Muhammad Naeem	33100-0252917-5	Entomology	33.81

1069	Dr. Hafiz Kamran Yousaf	38101-9084284-5	Entomology	29.84
1183	Dr. Muhammad Rizwan	33100-1426991-3	Entomology	28.44
1277	Dr. Talha Nazir,	33102-1248525-9	Entomology	27.15
1158	Dr. M. Ishfaque,	36103-1636758-7	Entomology	25.82
1203	Dr. M. Zeeshan Shabbir	33302-2807898-3	Entomology	22.84
1141	Dr. M. Asif Qayyoom,	55202-0215933-3	Entomology	22.16
1269	Dr. Sumbal Nazir	35201-4456915-6	Environmental Science	68.72
1222	Dr. Qumber Abbas	31203-666641182-3	Environmental Science	54.76
1072	Dr. Hafiz M. Tauqeer Khan	33100-3139819-1	Environmental Science	54.75
1267	Dr. Sobia Ashraf,	33100-0879138-8	Environmental Science	53.45
1090	Dr. Imran Mehmood	33202-9934603-9	Environmental Science	50.79
1116	Dr. Muhammad Abid	31102-4288609-1	Environmental Science	37.49
1020	Dr. Akhtar Javed	32203-6075506-1	Environmental Science	24.19
1145	Dr. Muhammad Fahid	33100-0800265-7	Environmental Science	14.21
1026	Dr. Amna Javed	33100-7480989-4	Food Science & Technology	57.44
1046	Dr. Bahzad Afzal	33100-1029795-3	Food Science & Technology	57.44
1086	Dr. Iahisham ul Haq	33100-3122622-5	Food Science & Technology	56.11
1195	Dr. M. Umair Sattar	33100-6542773-3	Food Science & Technology	56.11
1075	Dr. Hafiz Rizwan Sharif	34602-3391286-3	Food Science & Technology	55.44
1193	Dr. Muhammad Sohail	33303-0180667-7	Food Science & Technology	53.78
1022	Dr. Ali Raza	33100-5084114-7	Food Science & Technology	48.13
1120	Dr. M. Adnan Nasir	33204-0339396-1	Food Science & Technology	44.47
1262	Dr. Shanza Mukhtar	33100-7097906-0	Food Science & Technology	35.49
1180	Dr. M. Saeeduddin	36601-6508711-9	Food Science & Technology	35.11
1239	Dr. Saira Sattar	42101-1109519-8	Food Science & Technology	33.78
1184	Dr. M. Saad Hashmi	32304-5613519-3	Food Science & Technology	22.85
1097	Dr. Jawad Ashraf	36102-6038632-1	Food Science & Technology	20.84
1113	Dr. Mubeen Sarwar	35302-8989427-9	Horticulture	56.74
1216	Dr. Osama Bin Abdul Hafeez	33100-8121709-7	Horticulture	54.40
1162	Dr. M. Kaleem Naseem	35202-3193141-9	Horticulture	52.12
1058	Dr. Fareeha Shireen	38201-6492558-4	Horticulture	51.40
1234	Dr. Rozina Kazimi	38303-3674211-4	Horticulture	47.12
1224	Dr. Rana Naveed ur Rehman	33105-7565598-1	Horticulture	46.05
1049	Dr. Bilal Ahmad	38403-3302117-1	Horticulture	44.47
1232	Dr. Rizwan Mahmood	35403-1130368-3	Horticulture	44.46
1130	Dr. M. Ammar Raza	32303-8237955-3	Horticulture	43.47
1054	Dr. Fahad Ramzan	33100-1237808-3	Horticulture	39.75
1254	Dr. Sana Shabbir	33012-9784549-6	Horticulture	28.84
1165	Dr. M. Khalil ur Rehman	32402-4986544-3	Horticulture	27.49
1167	Dr. M. Khashi u Rahman	33203-0997995-9	Horticulture	13.84
1208	Dr. Naeem Saddique	35101-8062944-9	Irrigation & Drainage	88.69
1179	Dr. Muhammad Rizwan	33100-0278069-1	Irrigation & Drainage	74.38
1087	Dr. Ikram Ullah	33102-3734412-9	Irrigation & Drainage	73.39
1154	Dr. M. Imran Khan	33201-7869067-3	Irrigation & Drainage	71.72
1099	Dr. Junaid Nawaz Ch.	33100-9246526-1	Irrigation & Drainage	69.41
1249	Dr. Salman Khan	16202-3882427-7	Irrigation & Drainage	51.73
1143	Dr. M. Bilal Idrees	33100-8554361-1	Irrigation & Drainage	48.44
1108	Dr. Mazhar Iqbal	33106-7683039-9	Irrigation & Drainage	45.12
1211	Dr. Noman Ali Buttar	36302-8813369-5	Irrigation & Drainage	39.12
1219	Dr. Qaisar Saddique	35403-1007488-3	Irrigation & Drainage	34.78
1161	Dr. M. Jehanzaib	33100-1169640-1	Irrigation & Drainage	30.17
1292	Dr. Zain Nawaz	33100-7179800-9	Irrigation & Drainage	28.45
1016	Dr. Ahmed Azeem	33100-5881159-9	Irrigation & Drainage	20.87
1126	Dr. M. Akmal Farooq	31203-1719420-7	Pharmacy	53.76
1245	Dr. Sajid Mahmood	37302-0410820-3	Pharmacy	53.45

1096	Dr. Jawad Akbar Khan	34501-5477704-1	Pharmacy	45.47
1274	Dr. Syeda Rubab Batool	42501-1034446-4	Pharmacy	42.75
1019	Dr. Aisha Mobashar	35401-1474441-2	Pharmacy	41.06
1006	Dr. Abdul Qayyum Khan	35202-1598931-7	Pharmacy	37.14
1156	Dr. M. Imran Khan	38302-1211886-5	Pharmacy	33.50
1207	Dr. Nadiah Zafar	35202-6641569-2	Pharmacy	28.18
1070	Dr. Hafiz M. Mazhar Asjad	38403-2941811-5	Pharmacy	27.51
1079	Dr. Hira Ijaz	33100-9178224-4	Pharmacy	24.19
1091	Dr. Imran Nazir	38403-2188544-9	Pharmacy	22.86
1035	Dr. Asif Mahmood	33202-0176976-3	Pharmacy	17.54
1218	Dr. Qaisar Mahmood	38403-6091110-3	Pharmacy	16.87
1213	Dr. Nyla Ajaz	33100-4239115-6	Pharmacy	11.18
1123	Dr. Muhammad Afzaal	36601-2232979-5	Physics	56.71
1057	Dr. Faiza Uzma	38403-4156101-8	Physics	37.09
1013	Dr. Ahmad Hussain	38201-8826170-5	Physics	29.15
1137	Dr. M. Arslan Ashfaq	36601-7012858-5	Physics	28.51
1089	Dr. Imran Khan	31101-6683006-1	Physics	27.49
1030	Dr. Aqrab ul Ahmad	36603-2331942-1	Physics	24.51
1255	Dr. Seemab Iqbal	33102-7807801-4	Physics	18.53
1280	Dr. Ubair ur Rehman	31203-9431588-5	Physics	17.85
1168	Dr. M. Khuram Shahzad	33201-3301351-9	Physics	14.49
1043	Dr. Awais Siddique Saleemi	36601-1846152-7	Physics	13.49
1283	Dr. Umara Sahar Rana	33104-4367800-0	Plant Breeding & Genetics	94.01
1084	Dr. Huma Saleem	33100-4354335-0	Plant Breeding & Genetics	93.35
1119	Dr. M. Adnan Mushtaq	31104-2273753-5	Plant Breeding & Genetics	81.71
1285	Dr. Usman Aslam	33100-6837935-1	Plant Breeding & Genetics	81.38
1045	Dr. Aziz Ullah	38303-5808435-1	Plant Breeding & Genetics	80.71
1287	Dr. Waqas Shafqat Chattha	33100-8689022-1	Plant Breeding & Genetics	80.05
1185	Dr. Muhammad Shaban	03302-1234883-1	Plant Breeding & Genetics	79.05
1007	Dr. Abdul Rehman	33101-6895209-3	Plant Breeding & Genetics	79.04
1051	Dr. Bisma Riaz	35403-6543142-4	Plant Breeding & Genetics	79.04
1155	Dr. M. Ifnan Khan	35201-9134701-1	Plant Breeding & Genetics	77.72
1237	Dr. Sadra Iqbal	37406-4523934-4	Plant Breeding & Genetics	76.70
1281	Dr. Umar AKram	36103-4281931-1	Plant Breeding & Genetics	76.37
1139	Dr. Muhammad Asif	36501-7645892-5	Plant Breeding & Genetics	76.05
1125	Dr. M. Ahsan Khan	33100-1001087-1	Plant Breeding & Genetics	75.72
1241	Dr. Sajid Fiaz	35302-5352570-7	Plant Breeding & Genetics	73.73
1009	Dr. Adil Abbas	33203-16672507	Plant Breeding & Genetics	73.40
1053	Dr. Danish Ibrar	13302-6492146-1	Plant Breeding & Genetics	73.40
1103	Dr. Khalil Ahmad	32203-5199377-3	Plant Breeding & Genetics	70.72
1223	Dr. Qurban Ali	35102-0612381-9	Plant Breeding & Genetics	69.41
1031	Dr. Areej Javaid	33100-0855813-8	Plant Breeding & Genetics	66.73
1074	Dr. Hafiz M. Wasif Ali	33301-2059421-9	Plant Breeding & Genetics	66.73
1002	Dr. Aamir Riaz	36103-3068013-7	Plant Breeding & Genetics	64.42
1067	Dr. Ghulam Rasool	32102-0983223-3	Plant Breeding & Genetics	64.08
1264	Dr. Shakeel Ahmad	34301-1542446-1	Plant Breeding & Genetics	62.72
1159	Dr. M. Jaffer Ali	36302-5531959-3	Plant Breeding & Genetics	60.40
1142	Dr. Muhammad Azmat	33100-0596493-9	Plant Breeding & Genetics	59.07
1129	Dr. M. Amjad Nawaz	38403-9484692-1	Plant Breeding & Genetics	56.42
1198	Dr. Muhammad Waqas	38403-1229962-3	Plant Breeding & Genetics	56.11
1153	Dr. M. Haydear bin Khalid	35404-4632670-9	Plant Breeding & Genetics	54.76
1260	Dr. Shameem Raja	33100-1860932-0	Plant Breeding & Genetics	53.76
1146	Dr. M. Farhan Yousaf	36102-6682472-7	Plant Breeding & Genetics	52.73
1228	Dr. Raheela Rehman	37105-7790050-6	Plant Breeding & Genetics	51.07
1190	Dr. Muhammad Shoaib	36302-2636709-9	Plant Breeding & Genetics	50.75

1112	Dr. Mubashir Manzoor	32301-7965348-3	Plant Breeding & Genetics	48.46
1188	Dr. M. Shafiq Ahmad	32203-0195560-3	Plant Breeding & Genetics	48.13
1151	Dr. M. Hassan Khan	33102-7496270-1	Plant Breeding & Genetics	45.77
1040	Dr. Atta ur Rehman Khan	38302-+5698600-1	Plant Pathology	54.77
1095	Dr. Jamil Shafi	35301-3779496-1	Plant Pathology	48.76
1298	Dr. Zunaira Afzal	33100-6659176-2	Plant Pathology	48.13
1025	Dr. Ammarah Shabbir	33100-4670910-4	Plant Pathology	48.11
1182	Dr. M. Rizwan Bashir	33100-9207629-9	Plant Pathology	46.79
1202	Dr. M. Zeeshan Mansha	32203-5781065-5	Plant Pathology	45.39
1017	Dr. Ahmed Raza	35301-0730530-1	Plant Pathology	43.79
1042	Dr. Awais Ahmed Khan	38302-5767629-7	Plant Pathology	42.46
1071	Dr. Hafiz Muhammad Riaz	36202-2468603-1	Plant Pathology	40.48
1023	Dr. Amjad Shahzad Gondal	38401-3918074-3	Plant Pathology	38.12
1286	Dr. Waheed Anwar	32203-7987369-1	Plant Pathology	37.80
1135	Dr. Muhammad Arif	32301-5958846-1	Plant Pathology	36.16
1230	Dr. Rana M. Sabir Tariq	34603-5786104-7	Plant Pathology	35.79
1038	Dr. Ateeq Tahir	36602-3422700-9	Plant Pathology	20.14
1246	Dr. Sajid Mehmood	31101-1636415-7	Plant Pathology	17.54
1073	Dr. Hafiz M. Usman	35402-8979866-3	Plant Pathology	16.19
1194	Dr. M. Tariq Manzoor	34502-4490494-1	Plant Pathology	14.88
1200	Dr. Muhammad Yahya Khan	32303-0712262-9	Soil Science	72.40
1104	Dr. Liaqat Ali	36601-1588149-1	Soil Science	62.76
1169	Dr. M. Mohsin Abrar	31203-0162110-9	Soil Science	61.43
1297	Dr. Zulfiqar Ahmad	32301-8309066-5	Soil Science	61.43
1171	Dr. M. Nadeem Ashraf	34502-2921268-3	Soil Science	60.42
1294	Dr. Zeeshan Ahmad	36401-1746737-5	Soil Science	59.41
1217	Dr. Perveen,	35301-4802532-0	Soil Science	55.43
1221	Dr. Qasim Ali	33103-8799592-1	Soil Science	53.78
1166	Dr. M. Mazhar Iqbal,	43104-3631276-9	Soil Science	53.45
1289	Dr. Wasim Javed	31302-1543329-7	Soil Science	52.12
1177	Dr. Muhammad Rahil Afzal,	35501-0145342-3	Soil Science	46.77
1014	Dr. Ahmad Mahmood	36402-7150215-9	Soil Science	45.47
1192	Dr. M. Shoaib Rana,	36303-3434875-3	Soil Science	42.81
1055	Dr. Faisal Nadeem	34101-6469875-9	Soil Science	42.80
1244	Dr. Sajid Hussain,	36102-4232399-1	Soil Science	41.47
1235	Dr. Rubab Sarfraz	33106-9403345-2	Soil Science	37.44
1215	Dr. Omar Aziz,	34502-7313987-9	Soil Science	34.46
1132	Dr. M. Anjum Iqbal,	33100-6804434-9	Soil Science	16.21