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THE APPLE TREES AND APPLE CROP ON THE COLLEGE FARM.

BY J. L. BUDD.

Extended personal observation, the press reports, and our correspondence, show this to be an "off year" with the apple crop over about the whole country east of the Rocky Mountains to the Atlantic.

So far as known, it is also true that scab of leaf and fruit, (*Fusicladium dendriticum*, Fckl.) and other leaf troubles, are found to a greater extent than has been heretofore known on all varieties of the west European apples, and their American seedlings; also, on all varieties of the Siberian crabs, and of our native crab, *Pyrus coronaria*. In the vicinity of Ames we have not been able to find a healthy leaf on the native crab, and the perfect leaves are rare on the Siberian crabs, and our common apples, except the Duchess of Oldenburg, Whitney, Tetofsky, Wealthy, and some other varieties of Russian origin or descent.

Under these circumstances a brief report on the foliage and crop of our Russian varieties, and some varieties which have sprung from that race, may have some interest and value.

The report at this time only includes the varieties in our oldest experimental orchard which have from a fair to a very large crop of fruit this season. This of course excludes many valuable varieties, which bore very heavily last year, and which have no fruit or but a light crop this season. As we are only reporting crop and health of foliage we include a number of varieties which we no longer propagate, as we have other sorts of their season. which have proven more valuable.

The purpose of the report is to show that the east European varieties have been able to give a good crop and maintain health of foliage under the very trying conditions of the early spring and the blossoming period. Even where the branches are interlocked, the foliage of the Russian sorts

is free from scab, while that of the neighboring Gros Pomier, Siberian crab, or native crab, is diseased. The list also includes some seedlings of northern origin which have stood best as root-grafts or top-worked trees in the older orchard, and which this year have a good crop of fruit. The observations have been made with great care by Prof. N. E. Hansen, the Assistant Horticulturist, and J. Sexton, the foreman of the horticultural department. The determination of the character of the leaf diseases were made by Prof. L. H. Pammel.

The orchard now reported was planted prior to our visit to east Europe in 1882, and does not include any of the varieties then selected and imported, most of which are now fruiting in various parts of the state and the west in a small way. In many cases a variety is reported as showing blight when only a single terminal point was touched on the side next to a variety like Yellow Transparent which has many blighted twigs. Under these conditions even the Duchess shows an occasional blighted twig.

THE TABULATED LIST.

In the column stating size of crop, "very large" indicates an excessive crop; "large" means a good crop for any season; "good" means from three-fourths to a fair crop.

In the column giving condition of foliage, reference is made to firmness, size and perfect health of the leaves, "perfect" meaning equal to Duchess of Oldenburg. The column indicating scab explains itself.

The blight in orchard this year is confined mainly to a few varieties which are blighted on the ends of the points of growth, "very little" meaning only a few tips affected and "on tips" that many tips show blight.

RUSSIAN APPLES.

	CROP.	FOLIAGE.	SCAB.	BLIGHT.
Acid Repka, 466.....	Very good	Perfect...	Free.....	Free.
Aromatic Spike, 354.....	Good.....	"	"	Free.
Anisovka, 185.....	Very large.	"	"	Free.
Anisim, 14 M.....	Good.....	"	"	Very little.
Antonovka, 236.....	Large.....	"	"	Very little.
Arabian.....	Large.....	"	"	Free.
Autumn Aport, 129 M.....	Good.....	"	"	Free.
Anis.....	Good.....	"	"	Free.
Aport.....	Good.....	"	"	Free.
No. 35 M.....	V'y large.	"	"	Free.
No. 224.....	Large.....	"	"	V'y little.
No. 7, Orel.....	Good.....	"	"	Free.
Breskovka, 152 M.....	Large.....	"	"	Free.
Bergamot, 424.....	Good.....	"	"	Free.
Beautiful Arcade. 453.....	Large.....	"	"	Free.
Blushed Calville, 22 M.....	V'y large.	"	"	Free.
Basil the Great, 97L.....	Large.....	"	"	On tips.
Berry, 455.....	Good.....	"	"	Free.
Browery.....	Good.....	"	"	Free.
Boiken.....	Good.....	"	"	V'y little.
Borovinka, 133 M.....	Good.....	"	"	Free.
Blackwood, 58 Vor.....	Good.....	"	"	Free.
Bauman.....	Good.....	"	"	Free.
Blue Anis. Simbrisk. 11.....	Good.....	"	"	Free.
Cellina (North German).....	Good.....	"	"	Little.
Cinnamon Pine, 48 M.....	Large.....	"	"	Free.
Cross, 15 M.....	Large.....	"	"	V'y little.
Cinnamon, 322.....	V'y large.	"	"	V'y little.
Crimean Naliv, 563.....	Large.....	"	"	V'y little.
Cross, 413.....	Large.....	"	"	V'y little.
Count Orloff.....	Good.....	"	"	Free.
Champagne, 112 M.....	Good.....	"	"	Free.
Champagne Pipka, 181.....	Good.....	"	"	V'y little.
Charlamoff, 262.....	Good.....	"	"	Free.
Crimean Bog.....	Good.....	"	"	Free.
Dansic Pipka, 25 M.....	Good.....	"	"	V'y little.
Duchess of Oldenburg.....	V'y large.	"	"	Free.
Early Prolific, 322.....	V'y large.	"	"	Free.
Erdbeer, Streifling.....	Good.....	"	"	Free.
Flat Miron, 467.....	V'y large.	"	"	Free.
Geflammtter Weisser.....	Good.....	"	"	Free.
Golden White, 978.....	Large.....	"	"	Free.
Gipsy Girl, 1227.....	Large.....	"	"	Free.
Green Butskaya, 382.....	V'y large.	"	"	Free.
Garden, 214.....	V'y large.	"	"	Free.
Good Peasant, 14 Vor.....	Good.....	"	"	Free.
Golden Reinette.....	Good.....	"	"	Free.
Great Mogul. 54 M.....	Good.....	"	"	V'y little.
Glass, 85 M.....	Good.....	"	"	Free.
German Calville, 59 M.....	Good.....	"	"	Free.
Grandmother, 469.....	Large.....	"	"	Free.

RUSSIAN APPLES—CONTINUED.

	CROP	FOLIAGE.	SCAB.	BLIGHT.
Herren 87 M	Large	Perfect	Free	Free.
Hibernal 378.....	Large	"	"	On tips.
Hare Pipka 2 M.....	Large	"	"	V'y little.
Handsome White 450.....	Good	"	"	Free.
Juicy Ribbed 96 M.....	Good	"	"	Free.
Kremer's Glass 284.....	Large	"	"	V'y little.
Kustoe 215.....	V'y large.	"	"	Free.
Karabovka 21 M.....	V'y large.	"	"	V'y little.
Kursk Reinette 20 M.....	Large	"	"	Free.
Kursk Anis 984.....	Good	"	"	Free.
Landsburg (North German).....	Large	"	"	On tips.
Lehmapfel	Large	"	"	Free.
Livland Raspberry 340.....	V'y large.	"	"	V'y little.
Large Transparent 566.....	V'y large.	"	"	Free.
Lapouchoe 470.....	Good	"	"	Free.
Lejanka 41 M	Good	"	"	Free.
Longfield 57 M 161.....	V'y large.	"	"	V'y little.
Lubsk Reinette 444.....	V'y large.	"	"	Free.
Ledenets 30 M.....	Large	"	"	Free.
Little Hat 272.....	V'y large.	"	"	V'y little.
Little Repka 410.....	Large	"	"	Free.
Moscow Pear 380.....	Large	"	"	Free.
Marble 97 M.....	Large	"	"	Free.
Mottled Anis 13 M.....	Good	"	"	Free.
Moscow	Good	"	"	On tips.
Meadow Brovinka 548.....	Good	"	"	V'y little.
Muscatel 313.....	Good	"	"	Free.
Nitchner's Strawberry.....	V'y large.	"	"	Free.
Neelovskoe (?) 180.....	Large	"	"	On tips.
Osimoe 7 M.....	V'y large.	"	"	V'y little.
Ostrokoff 4 M.....	V'y large.	"	"	Free.
Painted White 468.....	Large	"	"	Free.
Pointed Pipka 361.....	Good	"	"	Free.
Painted Arcad 143 M.....	Good	"	"	Free.
Polisher Herrenapfel.....	V'y large.	"	"	Free.
Pipka 369.....	V'y large.	"	"	V'y little.
Popoff 247.....	V'y large.	"	"	V'y little.
Potainoe 106 M.....	Good	"	"	Little.
Possart.....	Good	"	"	Free.
Petrovskoe 80 M.....	Good	"	"	V'y little
Revel Glass.....	Good	"	"	Free.
Rambour Grosser (North Ger- man).....	Good	"	"	Free.
Rhenisher Bohn (North Ger- man).....	Good	"	"	Free.
Raspberry 113 M.....	Large	"	"	Free.
Raspberry 288.....	V'y large.	"	"	Free.
Rambour Reinette 502.....	Good	"	"	Free.
Riepovka 323.....	Good	"	"	Free.
Romenskoe 599.....	Good	"	"	Free
Rubets 148 M.....	Good	"	"	Free
Resonant 352.....	Good	"	"	Free.

RUSSIAN APPLES—CONTINUED.

	CROP.	FOLIAGE.	SCAB.	BLIGHT.
Revel Pigeon, 123.....	Good.....	Perfect....	Free.....	Free.
Red Transparent, 133.....	Large.....	“	“	Free.
Red Rukin 55 M.....	Good.....	“	“	Free.
Russian Gravenstein 135 M.....	Good.....	“	“	Free.
Red Sided 142 M.....	Large.....	“	“	V'y little:
Red-black, 966.....	Large.....	“	“	Free.
Royal Table 5 M.....	Large.....	“	“	V'y little.
Red Reinette, 316.....	Large.....	“	“	V'y little.
Red Astrachan, 1.....	Large.....	“	“	Free.
Red Pine, 60.....	V'y large.	“	“	V'y little.
Rinakouska.....	V'y large.	“	“	Free.
Rambour Gruner (N. Germany)	Good.....	“	“	Free.
Red Ananas.....	Good.....	“	“	V'y little.
Sweet Cross 8 M.....	Good.....	“	“	Free.
Silken 75 M.....	V'y large.	“	“	Free.
Svinets 92 M.....	Good.....	“	“	Free.
Sandy Glass 24 M.....	Large.....	“	“	Free.
Sweet Borovinka 874.....	Large.....	“	“	V'y little.
Sweet Pipka, 321.....	Large.....	“	“	V'y little.
Sheeprose, 128.....	V'y large.	“	“	Free.
Smolensk 98 M.....	Good.....	“	“	Free.
Serinkia 107 M.....	Good.....	“	“	Free.
Sweet Streaked, 196.....	Large.....	“	“	V'y little.
Simbrisk, 6.....	Good.....	“	“	Free.
Simbrisk, 2.....	Good.....	“	“	Free.
Simbrisk, 9.....	Good.....	“	“	Free.
Sklanka Bog.....	Good.....	“	“	Free.
Streifling Winter.....	Large.....	“	“	Free.
Tashkin 141 M.....	Good.....	“	“	Free.
Vargulek 12 M.....	V'y large.	“	“	Free.
Vineuse Rougue.....	Large.....	“	“	Free.
Voronesh Cinnamon 44 Vor..	Large.....	“	“	Free.
White Pigeon, 317.....	Good.....	“	“	Free.
White Skrute, 982.....	Good.....	“	“	Free.
Winter Pear, 70.....	V'y large.	“	“	Free.
White Vochin, 364.....	V'y large.	“	“	Free.
Wine Rubets, 210.....	V'y large.	“	“	V'y little.
White Pelikanoff, 980.....	V'y large.	“	“	V'y little.
Waxen 160 M.....	Good.....	“	“	Free.
White Rubets, 226.....	Good.....	“	“	Free.
Yellow Sweet 127 M.....	Good.....	“	“	V'y little.
Yellow Transparent, 334.....	V'y large.	“	“	On twigs.
Yellow Arcad, 327.....	V'y large.	“	“	Free.
Yellow Kiev 47 M.....	Good.....	“	“	Free.
Yellow Calville, 442.....	Good.....	Not perf't	“	Free.
Yellow Naliv 164 M.....	Good.....	Perfect....	“	Free.
Yellow Anis, 987.....	Good.....	“	“	Free.
Zolotoreff, 275.....	Good.....	“	“	Free.
Zusoff, 585.....	Good.....	“	“	Free.

AMERICAN APPLES OF NORTH GERMAN AND RUSSIAN PARENTAGE.

	CROP.	FOLIAGE.	SCAB.	BLIGHT.
Calville of Abbotsford.....	Good.....	Perfect....	Free.....	Free.....
Fameuse Sucre.....	Good.....	.....	Much.....	Free.....
Hill's No. 5.....	Good.....	Perfect....	Free.....	Free.....
Magog.....	Good.....	.....	Trace.....	Free.....
Scott's Winter.....	Good.....	Perfect....	Free.....	Free.....
Windsor Chief.....	Good.....	Perfect....	Free.....	V'y little.
Wolf River.....	Good.....	.....	Trace.....	Free.....
Wealthy Seedling.....	Large.....	.....	Trace.....	Free.....
Winsted Pippin.....	Large.....	Perfect....	Free.....	Free.....

AMERICAN SEEDLINGS OF UNKNOWN PARENTAGE.

Burlington.....	Good.....	.....	Much.....	V'y little.
Excelsior.....	Good.....	.....	Trace.....	Free.
Fillbasket.....	Good.....	.....	Much.....	Free.
Homestead Crab.....	Good.....	.....	Trace.....	On tips.
Iowa Keeper.....	Good.....	.....	Much.....	Free.
Iowa Greening.....	Good.....	.....	Much.....	V'y little.
Joe Davis.....	Good.....	.....	Much.....	Free.
Knowles' Pippin.....	Good.....	.....	Much.....	Free.
London Pippin.....	Good.....	Not perf't	Free.....	Free.
Martha Crab (Gideon).....	Good.....	.....	Much.....	Free.
Northern Spitzenburg.....	V'y good.	.....	Much.....	V'y little.
Red Russet.....	Good.....	.....	Much.....	Free.

SUMMARY.

1st. 1892 is a remarkable year for scarcity of apples and general prevalence of scab and diseased foliage on west European apples, Siberian crabs and native crabs. On the College grounds very few of these are exempt from scab, and those that are exempt show other leaf trouble.

2d. Russian apples have good foliage and are exempt from scab, although intermingled in orchard with scabbed varieties. In many cases, in Haas trees partly top grafted with Russian varieties, the Haas part of the top is scabbed while the Russian part is exempt.

3d. The Russian varieties that did not bear very heavily last year have from a good to a very large crop this year, and many varieties that bore a heavy crop last year have an equally large crop this year.