

plants is usually less marked than in "hoed crops."

2. By giving the plant the advantage of position, whereby it is allowed the most congenial exposure to sun and contour of land.

3. By increasing the fertility of the soil, either by tillage or the direct application of plant food, or both. Rich and moist soils tend to "break" the type—or to cause initial variations—to produce verdant colors and loss of saccharine and pungent qualities, to induce redundant growth, and to delay maturity and thereby to render plants tender to cold winter climates.

4. By thinning the tops of plants and the fruits, whereby the remaining parts receive an amount of food in excess of the habitual allowance.

5. By divergence of character in associated plants. It is well known that a field which is planted so thickly to corn that it cannot grow more with profit, may still grow pumpkins between. The pumpkins and the corn are so unlike in form that they complement each other, the one filling the niche which the other is not fitted to occupy. We have already seen that a copse ever so full of bushes may still grow vines. A meadow which is full of timothy may still grow clover in the bottom, and land which is covered with apple trees still grows weeds beneath. "The more diversified the descendants from any one species become in structure, constitution, and habits," writes Darwin, "by so much will they be better enabled to seize on many and widely diversified places in the polity of nature, and so be enabled to increase in numbers."

—*Bailey's Plant Breeding.*

Athletic Notes.

SPORTS-DAY, with its excitement, is past and we are all pleased, either with our own successes or the successes of our friends. The programme throughout was carried on successfully, and the weather, which for some days had been unsettled, was favorable except for a chilly south wind. The city people, and especially the ladies, turned out in large numbers and seemed to take a lively interest in the different events. Nothing, we think, added more to the

pleasure of the afternoon than the music of the Silver Creek Band, which helped us forget the coolness of the weather. Our champion for this year is Mr. A. J. Brokovski, of Battleford, N. W.T., who, beside his other prizes, won a gold medal presented by Mr. Sleeman, of Guelph. No records were broken, but the competition throughout was keen.

Of all the events, the obstacle race was the most amusing, but the team race and the tug-of-war created the most interest among the boys, both events being won by the second year. The following is a list of the various winners:

1. Putting 16 lb. shot—Donald, Brokovski, Black.
2. Putting 21 lb. shot—Donald, Linklater, Brokovski.
3. Putting 16 lb. shot—Open to students under 140 lbs.—Goble, Carlyle, Hollis.
4. Running broad jump—McIntyre, Goble, Brokovski.
5. Half-mile run—Brokovski, Ravetz, Bain.
6. Running, hop, step and jump—Brokovski, McIntyre, Goble.
7. 100 yard dash—Brokovski, Linklater, Goble.
8. Running high jump—Goble, Brokovski, McIntyre.
9. Quarter mile run—Brokovski, Bain, Wilmott.
10. Standing broad jump—Brokovski, Robertson, Norcross.
11. Walking race—Lewis, Raynor, Cote.
12. Standing high jump—Goble, Brokovski, McIntyre.
13. Team race, one mile (relay)—Won by Second year team.
14. Hurdle race—Greenfield, Brokovski.
15. Two hundred and twenty yard race—Linklater, Wilmott, Brokovski.
16. Three-legged race—Carlyle and McIlroy; Goble and McIntyre; Linklater and Robertson.
17. One mile race—Raynor, Mortureux, Fawell.
18. Sack race—Carlyle, Greenfield, McIntyre.
19. Obstacle race—McIntyre, Mortureux, Carlyle.
20. Tug-of-war, 1st year vs. 2nd year—Second year.
21. Consolation race, 220 yards—Hollis.

The annual supper in the evening was quite up to the standard both in menu and speeches, President Doherty occupying the chair. The staff and quite a number of visitors were present. One of the most pleasing events of the evening was the presenting of the prizes by Mrs. (Dr.) Mills.

Our Rugby boys have had their business sadly interfered with lately by the sudden approach of winter, and have had to postpone several matches. They played two games with Guelph recently, the first being played on October 19th on the College campus, and the return match on