

PREMIUMS:  
this County, in

early next summer;  
art, running paral-  
ler than the others.  
light manuring, to  
ill, or summer fall-  
r sufficient plough-  
carrots, beets and  
of sixty bushels of  
pril with wheat or  
ase operations, and  
or loss arising from  
of the same field, to  
r, 1852.

en inches with the  
draining tools here,  
After the drain is  
laid carefully in by  
clay or soil closely  
The main drain  
eighteen inches of  
ea in the main drain.  
this County, drains  
common and subsoil  
y be trenched.

I by these operations  
e observed, that land  
ards, and is therefore  
which flows over the  
o soil. Manure and  
oldness and sourness  
and liable to injury  
seases and accidents  
draining, the till in  
which is supplied by  
joining portions, and  
ng thus porous, every  
t reaches the drains,  
derived from the ai-  
vegetable remains and  
olled, and furnish the  
o be noticed that, by  
y to the top) the sur-  
gravel. By this new  
and the earth packed  
from above, all the  
at the drains do not

DINE, President.

ROP.

BER 16, 1849.

thus:—The extent  
ally poor, and had  
, after pulling the  
ir crop. After the  
then ploughed it

deep. This spring I ploughed it twice, and put on 45 single horse loads to the acre of well rotted manure in drills 30 inches apart. I sowed on the top of the manure 3 cwt. of guano to the acre, then closed the drills and sowed turnip seed, about 5lb. to the acre, from 5th to 30th June. The fleas were numerous, but left enough for a crop. I thinned or singled them to about 10 inches apart, by hand, removing the earth from each plant so that it fell over. During the next month I passed through them with the hoe, levelling the drills and destroying all weeds; I ran through them twice afterwards with the drill harrow, and to finish, ran a light furrow with the drill plough to carry off the water. The produce of a square rod in different parts of the field, measured in a flour barrel, estimated at 2½ bushels, was 8 bushels, which shows a produce of 1280 bushels per acre. I have sold about 2000 bushels at 1s. 3d. per bushel—and what I cannot sell I intend to feed with straw to my dairy cows, and boiled with chaff to my horses and pigs. I think a bushel of turnips boiled with chaff will go as far as a bushel of bran, and at that rate would be worth from 9d. to 1s. per bushel.

I cannot well estimate the value, however, for feeding, but consider them indispensable. I consider that an acre of turnips would keep five cows through the winter, as well as an acre of hay would keep one.

The cost of cultivation I consider to be—

For ploughing, &c.	-	£2	10	0
“ thinning and weeding,		0	12	6
“ lifting,	- - -	0	10	0
“ manure,	- - -	7	5	0
			<hr/>	10 17 6
1200 bushels Turnips, at 9d.	-		45	0 0

Profit, - £34 2 6

—Or, in other words, they stand me in about 2d. per bushel. My field of Carrots was cultivated in the same manner. It contained two acres—was sown about the 1st of May with seed prepared as recommended by Mr. Ingledew, and thinned to about four inches. The produce is five and a quarter bushels to the rod, or 840 bushels to the acre. I can sell a considerable quantity at 2s. 6d. per bushel, the rest I will feed to my horses and pigs.

I am your obedient servant,

THOMAS DAVIDSON.

#### DR. PETERS' STATEMENT.

LANCASTER, October 22d, 1849.

SIR,—My mode of cultivating carrots and turnips is to spread the manure upon the ground at the rate of thirty tons to the acre, and plough it in, then harrow well, and run the drills with a double mould-board plough. My man, with a pair of horses, will plough, harrow, drill and sow an acre in two days with ease, which, at 12s. 6d. per day, is 25s. I weed chiefly with a drill plough and cultivator. My turnips averaged eight bushels to the square rod. My carrots were all housed before I got your note, so that I cannot say how many bushels I had in a square rod, but the circumference of most of them was from eight to ten inches, and the Belgian were from eighteen inches to two feet long. I always sow Carrots upon potato land, and Turnips upon oat stubble. I sell carrots at 2s. 6d. and 3s. per bushel, and turnips at 1s. 3d. to 1s. 4d. I think the White Belgian Carrot the most profitable crop that can be put in the ground.

I remain your obedient servant,

G. P. PETERS.

#### STATEMENT OF MR. FREDERICK J. AYERS.

COLDBROOK, October 22d, 1849.

To the President of the Agricultural Society:

SIR,—I send you a certificate of the quantity of turnips to the square rod, which is eight bushels, or at the rate of 1280 bushels to the acre.