THE VALUE OF MANURE.—The value of any stable manure, says the Mirror and Farmer, depends largely upon the food which is fed to the animal. If the food is rich, the manure will also be rich. Then the excrement of a growing animal is not as valuable as that of one that is fattening, because the growing animal requires nitrogen to make blood and muscular fibre, and phosphoric acid for bones, while a fattening animal requires only enough of these substances to supply the natural waste. Again the manure of an animal that is giving milk is not as valuable in proportion to the amount of ammonia philosophoric acid and potash it contains; hence it is impossible to arrive at a strictly correct estimate of the value of a given weight of animal manure.

A general average, based on extended experiments,
has, however, been made, and we copy from a work
called "American Manures" the following table, which may be taken as showing very nearly the amount of water and of valuable constituents contained in 1,000 pounds of manure in its natural undried state :-

-			
Water,	P. Acid.		
lbs.	lbs.	lbs.	
840	8.0		
743	12.2		
864			
			8.5
750			18.2
authority	puts the v	alues of th	ese mau-
ws for each	ch 1,000 lbs	J. :	
			\$3 10
8			457
			2 58
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os., equal	8	• • • • • • • • •	0.04
	Water, 1bs840743864850750 authority ws for ea	Water, P. Acid. 1bs. 1bs. 840 8.0 743 12.2 864 5.2 850 15.2 750 22.7 authority puts the v ws for each 1,000 lbs.	Water, P. Acid. Potash Ibs. Ibs. Ibs840 8.0 5.0743 12.2 28.0864 5.2 10.7850 15.2 5.5670 12.7 7.0750 22.7 1.0 authority puts the values of th ws for each 1,000 lbs.:

Human, 100 lbs., equals..... 0 50 Dr. Voelcher calculates the value of 1,000 pounds of well-rotted and dried stable manure to be \$11.35, but that is a kind of manure which farmers seldom see. The animals mentioned above will make in a year about the following amounts of liquid man-

ure:	•	. –		
Pig 1 000 lbs.	value	 	\$4	00
Horse, 2,000 lb	s., value	 	9	79
Cow. 2.000 lbs	value	 	. 2	92
Sheep, 500 lbs.	value	 	. 2	35
Human, 750 lb	s., value	 	. 3	16
	ed that a pound			

quired for the production of every bushel of corn that every pound of urine of a horse or man will furnish sufficient ammonia for a pound of wheat. As we have said, the value of manure is dependent upon so many conditions and circumstances that a direct and explicit answer to our correspondent's question cannot be given; but the above figures will enable him to make calculations which will be accurate enough for all practical purposes.

LATE TURNIPS FOR STOCK .- It is generally conceded that farm stock requires some green succulent food in winter in addition to dry forage, in order to keep them healthy. Carrots and beets are usually considered more nutritious than turnips, but they cost much more to raise, and do not succeed in all kinds of soils or over so wide a range of country as the several varieties of turnips. This section or group of sorts known under the general head of rutabagas are perhaps a little richer than the late or "flat turnips," as they are usually call-ed; still the latter grow as freely and mature so quickly that farmers usually prefer them to any other variety, and they can also be sown upon land from which some early crop has been gathered. Wheat, rye or out stubble may be turned under soon after harvest, and if the land is not rich a slight top dressmanure is advisable, after which turnips may be sown broadcast and a good crop secured. It is now time to prepare land for a crop of fall turnips, and we will return to say there is not a farmer in the country who has not at this moment plenty of land upon which a supply of these valuable roots may be grown before the ground freezes in the fall. We will also venture to say that his cattle next winter will be made more comfortable, and come out in the spring in better condition if given all the turnips they will eat than if they had few or none. The expense of raising the late sorts is a mere nothing beyond the cost of harvesting and storing. The land should be ploughed this month, and if very poor should receive a light top dressing of some kind of fertilizer, which needs only to be harrowed in, and not covered deeply. By the last of July or the first of August, give the land another thorough harrowing and then sow the seed and harrow in. The seed should be sown rather thinly, or the plants will be crowded and the turnips less in size. One pound of seed is an abundance for an acre, costing at most one dollar, and the yield on good soils very frequently amounts to three or four hundred bushels. Of course when sown broadcast no afterculture is given or required unless the land is more than ordinary foul and full of noxious weeds; and in such cases it is best to give it, before sowing or at the time, a top dressing of five or six bushels of salt per acre. This will act as a fertilizer to the turnips and check the growth of some of the more tender kinds of weeds.

VARIETIES.

The late turnips are divided into two classesthe white and yellow-fleshed sorts. One of the most prolific of the former is the long white or cow horn, which grows nore like a mangel beet than the ordinary varieties of the turnip. It is an excellent variety, grows quickly to a good size, and stands half out of the ground. The flesh is white and fine grained, and it is a good keeper when stored in a cool place. Red top, straw-leaved, white globe and early snowball are all excellent white-fleshed sorts, but the general favorits are found among the

YELLOW FLESH TURNIPS.

Whether they are really richer or contain more nutritious properties than the white-fleshed we wil not pretend to say; but we think that, as a rule, they are more solid, easier preserved and better keepers. Our preference among the dozen or more well known yellow flesh varieties is Robinson's golden ball. It is unsurpassed for richness and grows quickly, forming a round, smooth bulb. The skin is of a bright golden color, and the flesh pale cream color. We have kept this variety perfectly sound from the time of gathering in the fall until the following May. The yellow Malta and large yellow globe are also excellent sorts, and similar to the golden ball. But a turnip, whether of first or second quality, will seldom be refused by stock in winter. Our farmers are far too negligent in this matter of raising roots for stock, and they lose much in consequence, both in the health and general well being of their animals; and we are confident that one half of all the disease of which we hear so much in late winter and early spring is due to the want of an abundance of succulent food, which could be easily and cheaply furnished in the form of late sown turnips. We hope every farmer who reads this will carefully consider the subject and act accordingly.—N. P. Sun.

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'ols slimy; not unfrequently tinged with d; belly swollen and hard; urine tur-; respiration occasionally difficult, and empanied by hiccough; cough someues dry and convulsive; uneasy and discarbed sleep, with prinding of the teeth; temper variable, but generally irritable, &c.

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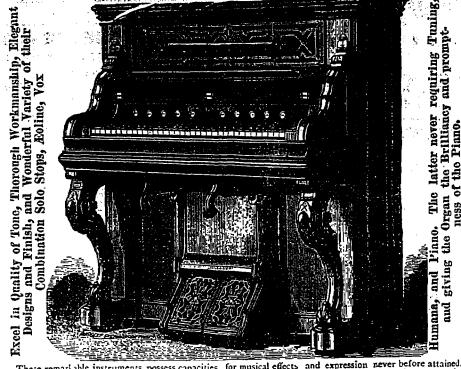
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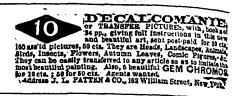
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