that of the animal-heating process. Should this | equivalent of 14lbs. 63 er. of green; therefore, plc of wise and most happy adaptation.

tial to vegetable life, that of disorganizers; what | fodder. is excrementuous from them being so reduced, ! as to have the character rather of inorganic than ' proceeding is too indirect properly to resolve the of organic compounds,-whether it be carbonic | question we have in view. The discussion preacid, with which they contaminate the air in 'sented by MM. Perrault and Jotempts merely re-piration—their gascous excrement :---or their | proves what no one thinks of denying, viz :---that liquid and consistent, derived from the other ex- | the most advantageous way of using the produce creted organs and passages of the body. These ' of artificial meadows, is to have it consumed as matters which are destructive to animals, and not ' much as possible while green, so as to avoid the only to the animals that void them, but to animals ' expense, the loss, and all the casualties of hay-generally, may be held to be the highest kind and ' making. But this discussion does not in the most appropriate food of plants. And the more | least establish that the nutritive power of green we reflect on this, the more we are convinced cf + founder, is diminished by the simple fact of its beits truth, the more we must admire the connec- 1 ing dried; the physiological question is thus left tion and mutual dependence. The animal enrich- 1 ... touched. For many years I have made various ing the air for the use of the plant; -the plant ' experiments to resolve it. For that purpose I paid purifying the air for the use of the animal; and the greatest attention to the changes in the weight the same in regard to the soil,-afford a lesson to ' of thirty-two horses, on which my researches were man of a very instructive kind,-most beneficial made, from the alternate substitutions of dry and when carried practically into effect,-most injuri- * ous when neglected,-in one iustance insuring ' time in favour of, at another against, the green fertility, and I may add salubrity,-in the other ' dict; and, after very numerous weighings, I found the production of sterility and disease. (To be that I was a little advanced as when I first began continued).

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We give the following asit is extracted from the + works of Prof. Baussingault :-

Experimental researches on the feeding properties of green fodder.-It is generally admitted that in consequence of the greater or smaller proportodders consumed when green are much more 1 tion of water it contained. Some experiments nourishing than when they are dried; in other which I have made on the drying of clover, show, words, it is believed that a hundred pounds of indeed, how much that proportion varies accordclover, lucern or meadow grass, have a far greater ' ing to the age of the plant, the nature of the soil. nutritive value than the hay obtained from a hun- ' and especially, according to the meteorological dred pounds of each of these elements. However, conditions during which the cutting had taken in carefully perusing what has been written on this subject, I have found nothing to justify that 1 on second year clover :opinion. Indeed, two good observers, Messrs. : May 19th, First cutting before Perrault and Jotempts, have assertained that, to flowering, 1000lbs of hay gave der green ; under the influence of either of these ; June 5th. (another district) first rations, there is a sufficiently satisfactory growth ; of wool and flesh. On the other hand, those ag- 1 riculturists have practically ascertained that, in | July 28th, Second cutting in the winnowing, including the fermentation in the + hay loft, and all the accidental losses, 100lbs, of + August, Second cutting-very clover or lucern are reduced to 23lbs of hay. From these results we draw this conclusion, that a in giving to a sheep, 3lbs. 3oz of dry lucern, we administer to him exactly, in point of value, the 'experienced a considerable loss from the leaves

be proved to be the case, it will be another exam- 1 51bs. 840z, of green food more than is required when the ration is composed of the undried I have spoken of vegetables, as organizers, or ' plant; and if a hundred pounds of clover or luthe producers of organic compounds, for the sup- ' cern, newly mowed, are requisite to feed an aniprt of animal life :- taking another view, animals ' mal, it will require, to feed it in the same degree, may be considered as performing a part as essen- ' the hay obtained from 163 pounds of the same

It may be easily understood that this mode of green fodder. The results have been at one my experiments.

These contradictory results can be explained by the imperfection of the method I had adopted. It is quite evident that the hay with which the horses were fed, having been obtained, in the previous year, did not answer, as regards the quality, to that which would have been furnished by the green clover with which it was compared; and as for this last fodder, there was constantly a great uncertainty in the real weight of the ration given, place. This may be illustrated by examples taken

flowering, 1000lbs of hay gave 212lbs. of water

cutting in flower 1000lbs. of

hay gave 305lbs. of water

flower 1000lbs of hay gave 290lbs. of water

much in flower-very woody;

1000lbs. of hay gave 360lbs. of water We may add, that, during the drying, the clover