Neither could I find the technical name of the various local weeds which had different common names in different places. The list of weeds which I append were not all found in any one place, twenty-one being the largest number found in any one locality; neither do I pretend to say they were all that might have been found. I no-ticed, too, that some weeds, owing to the variety of soll and climate in the various valleys, were much worse in some places than in others, in fact a very bad weed in some places was not at all troublesome in others. Some, however, as noted above, seemed quite at home everywhere. Neither could I find the technical name

I never saw healthier thistles (and I have seem acres of them), three feet high and preparing to give forth a mass of bloom. Another bad weed which is just getting a hold yet thrives well is false flax. A third is the dodder (called by some lovetangle) which I found scattered here and there in every part of the State. In some places it was so bad as to destroy large patches of lucern. Another very bad weed which is gaining a foot hold in many parts of the State is the bind-weeder, wild morning glory, it is a weed very difficult to kill and seeds profusely. Some of the plants here given as trou-blesome weeds might not be so classed never saw healthier thistles (and I

	LIST OF WEEDS.			
	COMMON NAME.	TECHNICAL NAME	DURATION.	METHOD OF DESTROYING,
1	Fox tail or squirrel tail	Hordeum jubatum	Annual	Prevent secding, Cultivation.
	Tild onto	Avonu futnu	Annual	Olean seed, Burning,
20	Dundation	Taraxacum taraxacum	Biennial	Cultivation.
0	Sunflower	Helianthus Annuus	Annual	Prevent seeding.
5	Lambs quarters	Chenopodium album	Annual	Prevent seeding.
				J Prevent seeding.
6	Wild lettuce	Lactucu scariola	Annual	Oultivation.
7	Rag weed	Ambrosia artemisiæfolia	Annual	Prevent seeding.
в	Mustard	Brassica sinapistrum	Annual	Hoed crops
9	Bindweed or morn-	Convolvulus arvenis	Perennial	) Late cultivation.
	118 1.013			Prevent seeding.
10	Cocklebur	Xanthium strumarium	Annual	Cultivation
11	Purslane	Portulaca oloracea	Annual	Close enlitivation.
	hoor planate and	A manage thus setsoflower	Amount	Prevent seeding,
12	Red Foot of pig week	Agrostommu githugo	Annual	Clean seed
13	Dock le	Punicum crus-galli	Annual	Prevent seeding.
14	Shopherd's nurse	Bursa bursa-pasturis	Annual	Cultivation.
10	lune grass or			Thorough cultivation
10	pigeon gruss	Setariu glauca	Annual	Hoed crops.
		Mollada alba	Demonstal	Cultivation,
17	Sweet clover	Diantago lungolata	Perennial	(ultivation
18	Pluntain	riantago iancointa	I OI CHIMAI	Alternate oultivation
19	Wild onion	Allinm vinealea	Perennial	and Heavy cropping.
20	Dock	Rumex erispus	Perennial	and Heavy eropping.
91	Wild parantp	Pastinaoa satiya	Blennial	Cultivation.
00	Dodder or love tangle	Cusouta epitbymnm	Annual	Clean seed.
23	Bull thistle	Carduus lanceolatus	Blennlul	Cultivation.
24	Door weed	Polygonum arvivulure	Perennial	Cultivation.
		Delumente control titur	- 4	Clean seed,
25	Wild buckwheat	Manublum multur	Paronalal	Cultivation.
26	Horehound	Nepeta ogguria	Peronniul	Cultivation.
27	Catnip	Nepeta Garanta	Forenman	Thorough cultivation
28	Sow thistle	Sonchus oleraccus	Annual	Smothering crops.
29	Burdock	Arctium lappa	Blennial	Cutting below crown.
				Prevent seeding,
30	Milk weed	Asolepias syriaca	Perenniul	(Cultivation.
31	Smurt weed	vanieum	Annual	) Cultivation.
				Cultivation,
32	Canadian thistle	Curduus arvonsis	Perennial	( Heavy cropping.
33	Yarrow	Achillea millefollum	Perennlal	Cultivation.
	m-lash man	Autonytom tenens	Perenalul	) Heavy cropping.
34	T.MICCH Stass			Hoed crop.
35	Ground cherty	Physalls lanceolutus	Perennial	Heavy gropping.
		Cara have tailant at	A	Cultivation,
30	Band hur or bur grass	Deserves see linus	Annual	Cloup good
37	Chess	promus sepannuk	Auguar	I Prevent seeding
38	False flax	Camelina sativa	Annual	Hoe Crops.
			D	1 Thorough cultivation
39	Round-leaf mallow	Malva rotunditolla	Perennial	( noed crops.
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If to these were added the five or six Utah species and the few imported kinds that I could not name we have a list of nearly fifty weeds that require watching The direct terms of the

watching The first ten or fifteen weeds in the list given, I noticed as being most troublesome, though there are a few others that have been apparently just introduced which may yet be some of our worst pests. The Canadian thistle I noticed in only two places in the State, in Logan and in Coyote. In the latter place, in a farm garden,

by some, such as sweet clover, hore-hound, catnip, plantaim, yarrow, door-weed, etc., as they are found in neg-lected fields and along the fences, yet in some places I believe the people will bear me out in putting them in this list

list. As with all plants, we may divide weeds into three general classes ac-cording to their period of growth. First annauls, are those which grow from seeds to maturity and produce seed and then die in one season. Second, bien-nials, or those which take two years

to complete their growth and produce seed. Third, perennials, or thise which live for many years and propagate themselves both by seed and roots. The two former may be killed by preventing the plant from going to seed for a few years, while to kill the perennials re-quires thorough cultivation and in some cases smothering crops. To live a plant must breathe, so that if the vegetative portion is prevented from. coming above the surface of the ground the root must die. Again, many weeds such as mustard, wild oats, etc., have oily seeds, while others have a thick hard coveing. These may retain their vitality when buried deeply in the soil. For a seed to germinate a proper de-gree of heat and moisture in the pres-ence of air is necessary. If either one is absent the seed will not germinate, and if it is oily or has a finity cover-ing it may lie dormant for many years, which explains the difficulty of ridding a neglected farm of weeds. The questions then for us to solive in this convention are, how to maintain to complete their growth and produce

and if it is oily or has a finity cover-ing it may le dormant for many years, which explains the difficulty of ridding a neglected farm of weeds. The questions then for us to solve in this connection are, how to maintain and improve the fertility of our soil, and how to control and to rid the farm of the weeds? To answer those ques-tions intelligently requires a little study of the mature of the grain and fodder crops which we grow upon the farm. The most of these crops may be divided into two classes ac-cording to the manner in which the seed is produced on the plant, or ac-cording to the substances which they require from the soil. Cereal crops, of which wheat, oats, barley, corn, tim-othy, are examples, generally have their seeds in a head and covered with chaff, and they gather their susten-ance as regards mineral and nitrogen-ous matters, from the soil directly and thus tend to impoverish it. The other class of crops, of which peas, beans, lucern, and clover are examples, are called legumes. This class of plants may be distinguished by the fact that the seeds grows on one edge of the pod on-ly. In addition to the sustenance which these plants get from the soil, they have the power, through the agency of microscopic parasites, of gathering the nitrogenous or ilesh forming material from the air and storing it up in their roots. Thus those plants tend to enrich the soil in just that constituent which the soil of the State is in many places deficient. A luguminous crop while storing a large amount of nitrogenous material in its leaves and stocks, yet accumulates such a large amount in the roots that the surface soil is actually richer in nitrogenous material after the crop was grown than before. To maintain the nitrogen contents of the soll, there-fore, leguminous crops should be grown at frequent intervals. Some crops also have long roots and feed from deep layers of soil, while others feed upon the surface soil; these should alter-nate. Again some crops reach matu-ity early in the year, while with

Many thoughts in this direction call Many choughts in this direction call for more extended notice, but my ob-gives opportunity for the destruction of weeds, while for other crops all the cultivation is done before they are of sown.

sown. If all the above characteristics of crops were made use of in a properly arranged rotation, neither the decreas-ing fertility of the soll, nor the in-crease in the number and productive-ness of the weeds need ever bother us to any extent. The intelligent growth of leguminous crops and the thorough-cultivation of the soll, will, I belleve, indefinitely maintain the fertility of