rch Enemy

~~~~~~

itself. Following Alexander II. of empt to dynamite liord, near Manow up the Manasting powder. st was found pubnewspaper filled o assassination. of Irish dynamite

ctive Department sell, oir Howard w sub-department a political crimine service. He put young detective ad, and sent him lata and material. n and German, the

conspiracy, ment was founded e idea of watching Irish dynamiters. broadened, and in e was at the front. ary after another r his vigilance and etertive Sergeant me Inspector Melominent figure in

dly and most danmnals the new dewatch. Running silow wealthy men that they would felville stumbied b of militant Anipon an Anarchist e provinces. The there for use

rs were on trial sion at a house in gathering up clues d that this was e of a plot to mures, the trial judge, ry, and, not least, osion the plotters house for the

emptrly raised the which one of the eld a card of memman found in the and arrested, and tained such a mass at it gave them the the Anarchists for

kind on suspicion on. It was one of a had brought from

had not expected British capital red from the bow. a that one man in afraid of them and nim ever since t special study is relest resorts. news, and nothing imppens within its ortel Since the

practically harmm only two im afe Very in Paris, s recket body an-, and if he had been dville and the Home

system, anarchy in

he stiletto. he said, "makes too een more of a boast. or, but the British no chances. He is

have been quietly

rrested by Meivilla a Station the night or was going nome with his wife. He the Continent with r in his pocket and of loose cartridges. anarchy in England d. It has shown no since 1894. The vde Park orators is It is simily the

ting off steam anarchist is under tire moment he sets The Special Branch I works in co-oceralitical police of the t has rarely made

no built up the sysars of steady work Whether the sys. I is so Alrong that I matter is a mes. ag ish suth ri les a .

POINT OF VIEW say on the Subject

to decide.

Soap.

recent soap controby the London Lang epistle on the subd by "A Schoolboy" Times, is of some in-

est nuisance possible

into their eyes and feres with their en-The instinct against s shown at the carlnot water a baby nd ree what faces e on when you are ears of age, and have as, and got hot, and inppy, your mother, you, instead of hugeing glad you have H, snys: "Oh you and wash your face." happen if there was

informed that "roap era invention, made, he benefit of the rs, because without it ot get enough advernake them pay."-Pre-

We wish the many thousands who enjoy Blue Ribbon Jea happy Amas and a prosperous hew year Blue Ribbon Jea Co

## Violet's Lover and the same of th

was soft and fragrant, the sky calm | will on the ground of undue influand clear, the moon shining bright- ence. He maintained-and nothing honest, and honorable. Never mind by. He smiled as he asked himself why could shake his opinion—that Darcy what any one says—Heaven knows he should be unhappy. What was Lonsdale had taken undue advan- the truth, and I love you all the there to make him so? Why need he tage of his position, that he had more that you bear this blame so feel depressed? Yet the very air influenced a weak-minded woman, well." around him was filled with whisper- and had persuaded her to leave ings-the night wind full of sighs. him the half of her money. It was his wife so cheerful, and they sat

fancies; his prospects were bright mors about him had been growing not touch one shilling of it." onough. He said to himself over and daily, that his friends and neight over again that no one was so for hors were all talking of him white leaves fell together was more rapid farmer purchases yearly seed of appetite, no generous wine to leaves fell together was more rapid farmer purchases yearly seed of the with certain granium minerals (speciover again that no one was so forbors were all talking of him, while as though I feared inquiry — as give strength to the feeble frame. with certain uranium minerals (specigrain or grasses and clovers, with tunate. Had he not a partnership? he himself had not the faintest idea though I had gained it though I knew that I had gained it The best medicine that the invalid mens of pitch-blende) than could be little thought of introducing weed a cocounted for by the granium oxide seeds in this way. As a matter of Had he not a certainty of calling the loveliest girl in the county his wife? I had were the cheering, kindly words accounted for by the uranium oxide seeds in this way. As a matter of in the mineral; she therefore seearloveliest girl in the county his wife? James Hardman had been in Lil- pelled me to return it. It seems to of his wife, the love of his son. What had he to four? Yet what ford-that he knew, and the fact me now that I am compelled, in juswas the strange, dull pain that made had not interested him in any tification of my own honor, to keep what covered the start fail him? way; but he did not know that it-Mrs. Hardman certainly meant me What caused the strange shuddering James Hardman had been silently to have it. Then there are the chilthat came over him? Why had he a destroying his reputation, had dren-I cannot rob them; I must not keen and penetrating, a vague, indefinite feeling of an evil day to destroying his reputation, had dren—I cannot rob them; I must not the day. He fought in vain. His elements), and tested each group as able, and, being introduced unconto its power of discharge. At first she sciously, gain a strong footbold definite feeling of an evil day to in the most subtle fashion, insin- theirs." come? He tried to repress it; he uated tha there had been a con- "But," said his wife, "if there yous, but not men.

For the first time he noticed that night a look of anxiety on his fath- the least rumor of it reached Kate. I have had many blessings-

fancies-troublesome fancies," was the reply; yet it was strange the son turned away with a feeling almost of

ened when, on the day following, turn, and again it may take a wrong Mrs. Lonsdale, going on her daily one." round of shopping, met the vicar's "But," returned Darcy Lonsdale, wife, Mrs. Hunter, who stopped to Mrs. Hardman meant me to have

Lonsdale," she said; and Kate, "I believe honestly that she inlooking at her, asked quietly what tended you to have it. I know she affair she meant. She looked so did. She talked to me for some time straight up to his father and laid cot hamper himself with a wife. liam Crooks. Its atomic weight has entirely unconscious that the vi- about the good it would do to you his hand lovingly upon his shoulder.

-of-any one?" she asked; and dispute? She intended to give me Let me help to fight your battle,

Then Mrs. Hunter related some dale. trifling little story; and even as The law deals heavily with cases she related it Kate told herself, like this. James Hardman will plead | Lonstlale. that she was inventing it. With her | that he is heir at law, that he is

ly parrying the remark, hastily to you." said good-morning in a very embarrassed fashion, and walked dale, "I did no such thing. away.

nothing; yet the heart of the lov- it. How dare any man say such a that any man who listens to it during the year. ing, anxious wife grew heavy with- thing of me?" the her. Sad news? What sad news | "James Hardman has been brought so strangely at me, madrre?"

foreboding. Her pretty house seem- one who knows me could believe She will love me the better and cling to the records kept at detective They also found that a similar "em- country, the sample having upwards ed almost to oppress her. She wish- that I have acted unfairly? How to me the more. I have no doubt headquarters, there four in which anation," or gas, was evolved from of 700 seed per pound, and others ed that she had not burdened herself with a nursery governess; as lieve it? I have lived among them love for me with a new extraord.

Interest the control of their duty, and love for me with a new extraord. There is no prolove for me with a new extraord. There is no prolove for me with a new extraord. There is no prolove for me with a new extraord. There is no prolove for me with a new extraord. There is no prolove for me with a new extraord. While the murdeness which a new extraord. for the new silk dress, it no longer fall my life—they ought to know me life." love for me with a new, strange eighteen in which the murderers While the "emanation" from thorwas this cloud hanging over her hus- scandal of any one of them"; and band and her children? Was it tears of wounded pride and wounded only nervous fancy, or was there affection stood in his eyes. "What i evil looming in the distance? She was soon to know; and when if they believe evil of him so easily?" be death. she did know, it proved to be even greater than she feared.

"I am very corry-I think it un-Malcolm, the lawyer.

CHAPTER VII.

For the secret was known now - startled when I meet them." the shadow had become a substance, | "James Hardman has talked a great the vague fancies had all assumed a deal among them," said Mr. Malform, the airy nothings had become colm, slowly. "He has said some realities, so stern and so cruel hard things of you." that they had driven Darcy Lons- "But my old friends," rejoined dale almost to despair. Mrs. Hard- Darcy Lonsdale-"the people I have

THE AVERAGE BABY.

cheerful, smiling and bright. When friends." he is cross and fretful it is because he "But these people have known me is unwell and he is taking the only so long!" means he has to let everybody know; Mr. Lonsdale could think of nothto does not feel right. When baby is ing so strong as that-no argument cross, restless and sleepless don't was so potent. He had lived amdose him with "soothing" stuffs. ong them all his life. Why did they which always contain poisons. Baby's not trust him as he trusted them? Own Tablets are what is needed to "If any one among them had come put the little one right. Give a to me and had told me such a thing of another, I would not have credited Into a bright, smiling, cooling, happy child. He will sleep at night, and the mother will get her rest too.

You have a great first of the property was to be large as Chicago's, the London force of the year, we tested the was declared null and void, and the large as Chicago's, the London force of the year, we tested the was declared null and void, and the large as Chicago's, the London force of the year, we tested the large as Chicago's, the London force of the year, we tested the large as Chicago's, the London force of the year, we tested the large as Chicago's, the London force of the year, we tested the large as Chicago's, the London force of the year, we tested the large as Chicago's, the London force of the year, we tested the large as Chicago's, the London force of the year, we tested the large as Chicago's, the London force of the year, we tested the large as Chicago's, the London force of the year, we tested the large as Chicago's, the London force of the year, we tested the large as Chicago's, the London force of the year, we tested the large as Chicago's, the London force of the year, we tested the large as Chicago's, the London force of the year, we tested the large as Chicago's the London force of the year, we tested the large as Chicago's the London force of the year, we tested the large as Chicago's the London force of the year, we tested the large as Chicago's the London force of the year, we tested the large as Chicago's the London force of the year, we tested the large as Chicago's the London force of the year, we tested the large as Chicago's the London force of the year, we tested the large as Chicago's the London force of the year, we tested the large as Chicago's the London force of the year, we tested the large as Chicago's the London force of the year, we tested the large as Chicago's the London force of the year, we tested the large as Chicago's the London force of the year, we tested the large as Chicago's the London force of the year, we tested the large as Chicago's the London forc You have a guarantee that Baby's to go home and tell this to my wife? Own Tablets contain not one particle Am I to tell her that a blameless of opiate or harmful drug. In all the life, spent in the midst of people who

You can get the Tablets from any zled, wondering look. druggist, or they will be sent by mail "Can it be a jest, do you think, he had been a weaker man, he would at 25 cents a box by writing direct | Malcolm-a jest to try me?"

The night was beautiful; the wind; tended to contest his relative's "I am growing fanciful," he said to a clever ruse, advising her to send | down to discuss their difficulty

> spiracy against him, and that he should be a trial, and it should go intended to dispute the will. Every against you?"

"I am a lawyer myself," he said, but I can never tell how a lawsuit Nor was the mystery less may end; it might take the right

the money, did she not? That one "This is a very sad affair, Mrs. broad fact no one can dispute."

> the money, and she did give it-what | father. I should like to take every is it to any one?" cried Darcy Lons- | man who believes the story, or who

"But," declared Mr. Lons-I swear to you I never asked, influ-

are a man's friends worth, Malcolm,

Perhaps they do not all believe ing back his head proudly. "Violet "Then why do they not, say so? Why not say, 'We have known you for years, and we believe in you?' Why Just: but it is quite impossible to not say that, instead of looking say how it will end," said George | coldly at me? As I pass by they converse about me in whispers, and are

man's heir-at-law, James Hardman, lived among so long-how can they had given legal notice that he in- | believe such a slander?" "I am not much of a cynic, but

refuse to touch it; but I cannot do he listened to the cruel words, which that, for I am sure my old friend fell like molten lead on his heart left it to me for the children. I and home, he could have cried aloud must be just to them. Great Heaven! that it was all false. He had lived I have kept a blameless name all my in Lilford both as boy and man, and life only to meet with this fate- all his old friends knew that he was to see my old friends point to me as incapable of doing any creature a a man who would cheat his client! wrong or an injury. I wish I had been dead before I had known this! Tell me what Hardman is going to do."

in the hands of a London firm, and the trial will come on about the end of September. You must prepare your defence and look up your witnesses." 'If my whole life does not witness for me," said Darcy Lonsdale, with quiet dignity, "then the words of no man can benefit me."

He dreaded going home-for the first time in his life he dislked again,' said Darcy Lonsdale, with a such safts, placed near a charged one knows. But as gold is an element passing through the streets of his deep sob, "I shall never look my native town, for the first time he fe'low-men in the face." shrunk from the glances and words of his old comrades.

himself. "How can I tell her?" But Kate knew already-such news | that he would never recover. travels fast. It was no weeping, loving lips kissed him, a brave, bright voice cheered him with the music of home words.

"I have heard all about it, Darcy," can injure you. You are innocent,

Darcy Lonsdale was relieved to find

Darcy Lonsdale. He went at once if it pleases Heaven to send me a only for one hour, and sun himself proved; but it appears that the "Shadows—nothing but shadows; lawyer had no cheering news for larger than the light of her presente. He saw that her so seldom now. He was hard at lawyer had no cheering news for his heart was some and heavy and the nights is exceedingly small and difficult to timothy analyzed during 1903, only But, for all that, she knew that her so section now. It is exceedingly small and difficult to timothy analyzed during 1903, only his heart was sore and heavy, and were too cold for walks and rambles. separate from bismuth. Subsequent- four had no weed seeds in them; that he was disturbed by a hundred doubts and fears. She soothed him, He occasionally went over to The other clament of the barium group. comforted him, and did her best to Limes, but the welcome that he reencourage him; but she could not ceived there was not of the warmest, persuade him to forget his trouble and he could not see Violet alone. for a moment—it was always in his He took up the letter with a smile she gave the name "radium." thoughts.

Lonsdale that he had heard the be deferred for at least a year, those of barium, and its spectrum face was full of emotion. He went under the circumstances Felix could cay, by Prof. Runge and by Sir Wil-"Have you heard no bad news of "Then what can there be found to "No man shall say one word against

affects to believe it, and thrash him." "My dear Felix!" exclaimed Mrs. "So I should, madre," and the honest, straightforward eyes she the rightful heir of the late Eliza- young, handsome face deepened with

beth Hardman, that he has been angry scorn for everyone who should "You are not telling me what was brought up in expectation of re- harbor an evil thought of one so bein your mind when you first spoke ceiving the money, and that you loved. The love between father and population of 6,500,000, there were other element, thorium, of which to buy improperly cleaned seeds be-Presently Mrs. Lonsdale said, mus-

ingly: "What will Violet say when she others arrests were made by the pol- air requires and attains for a short quality, and on this account 10 hears it ?" "Say ?" cried Felix. "She will be in-Mrs. Hunter's remark could mean enced, or said one word to her about dignant. She will agree with me

ought to be shot. Why do you look The Metropolitan police district is,

sighed. Why need anyone sigh? Vio- Among the remaining 106 cases con- month. It, too, was condensible when let's love, Violet's faith, was his victions were secured in 34, while cooled; it was luminous, and imrock of refuge, To doubt her word in 53 cases arrests were made which parted temporary luminously in ob-

will love me now as she has never Chicago's "undiscovered crimes" for ways hotter than its surroundings, about my dear father, and what I can do to help him." They talked until long after mid-

night; they looked the evil in the face. If they went to law, and the law was against them, what then? They would be dreadfully embarrassed for ready money. The nursery governess must go, but they could remain at Vale House, and the partnership should not be dissolved.

CHAPTER VIII.

this I must say; that I believe our glory of summer had given way to it. those in which the arrested men misfortunes are not always dis- The luxuriant trees made the woods were not punished, the fault may The average baby is a good baby- pleasing to those we call our a picture. The yellow leaves lay in not have lain with the police.

perienced a social earthquake. The about \$7,000,000. The total number great trial of Lonsdale vs. Hardman of arrests of all kinds made by it had been decided, and the verdict- in 1902 was 112,205. The Chicago no one but the twelve intelligent force numbered 2,782 officers and jurymen who gave it knew why-was men, with a pay roll of \$3,174,213. came to work with me in the early lication Clerk. against Darcy Lonsdale; the will The arrests numbered 70,314, was declared null and void, and the In other words, with a population truth of this surmise, and we were

plaintiff's counsel. Darcy Lonsdale quarter times as much, and who in minute but ever increasing quan- to think your husband was treating minor ailments from birth up to ten have known mersince I was a child, dream. He heard all kinds of many arrests. listened to them like one in a made one and three-fifths times as tity. equal the Tablets. Mrs. W. B. Ander- "I am very sorry for you, him; he heard himself described on into account. In London thirteen carbon and hydrogen can be prounderhand motives attributed to One other fact deserves to be tak- logy. Very complicated compounds of ago." son, Goulais River, Ont., says: "My indeed," said George Malcolm; "I as a conspirator as one who had murderers were tried by the courts, duced; one containing thirty atoms trouble?" little boy was very cross and fretful can say no more. I do not believe taken advantage of his position to nine being sentenced to be hanged of carbon and kixty-two atoms of "I had bought his mother a pocketand we got no rest with him until it, and I shall stand by you through influence a weak-minded woman. He and four being judged insane. In hydrogen is known. But one of, say book for a present." Since then boby rests well, and he is The two men shook hands, but branded him-which almost robbed ing -that of the brute Thoms - drogen would certainly fall to bits; Darcy Lonsdale's face wore a puz- him of his self-respect-which so while most of the sentences were it m and give out heat. fully, because he gave my mother completely bewildered him that, if ridiculously light .- Chicago Herald. The supposition appears reasonable a gold watch."

"I would not take it unless I name which he valued above all thought it were really mine-I would other blessings, were bespattered. As

have had a far better defence than told, for it forms the last chapter Those elements with high atomic he did, but that he trusted so en- in a volume of which many have still weights such as thorium, uranium "He has placed the whole matter tirely to the notion that his own to be written. innocence must be patent to all men. M. Heari becquerel, prompted by a posing into elements with low atomic The verdict was against him-unjust- hint from the celebrated mathemati- weight; in doing so they give off ly so, some said, for the judge had cian, M. Poincare, discovered that the heat, and also possess the curious summed up unfavorably for him-and compounds of uranium, a somewhat property of radio-activity. What

That his old friends should have believed this of him, pained the brave, "Heaven help Kate!" he said to honest heart. He had a long illness, from which it was icared at first

It was a dreary time. The business hysterical wife who clung to him, fell away; the toenspeople said to half mad with womanish fears; a each other with a grave shake of bright ,tender face looked into his, the head, that they could not trust sweet, warm, white hands clasped his, a man of whom such things had been said-that they could not leave their interests, as before, in his hands. One after another the old hames disappeared from his books. Men he had known all his simple life said his wife. "Never mind-no one fought shy of him-avoided him, and the dreary time he passed on.

Felix worked hard, but it was like one of them neither father or son ever forgot.

It was an evening in October, dark into their original position. himself; "and what tangible evil for another lawyr; but it would "Give the money back again, weight of anxiety upon him was like mineral containing uranium was ficial agencies which aid in ther, weight of anxiety upon him was like mineral containing uranium was dissemination. Not the least im-

> Who would write to him except Viohis beautiful love. Oh, to escape, if | country.

and read it. It was not from Violet, It is an undoubted element in the Presently Felix came in, and one but from her father, Francis Haye, sense in which that term is generglance at his son's face told Darcy saying that the marriage must ally used; its salts resemble closely whole story. The handsome young as he was quite sure that has been observed by Mr. Demar-

(To be Continued.)

## MURDER STATISTICS.

Homicides in Lendon and Chicago-Efficiency of Police Protection.

In the Metropolitan police district | weight is only 137. of London, which covers an area of lice. There was no undiscovered time discharging power. crime-to use the British expression-

He wondered why Mrs. Lonsdale selves killed at the time of the crime. that from radium salts lasted either did not, or have not yet, re- jects which it touched ("excited ac-"I have no foic," he said, throw- sulted in convictions. In 19 cases no tivity"). arrests were made. These last are The fact that a radium salt is al

some of the cases in which no ar-

dank heaps, the corn had all been | The London metropolitan force is cut and carried, the fruit gathered; materially larger in proportion to the gloaming was longer, and the population and territory than the sunset had clouds of deeper crimson, Chicago force. It has 14,476 officers The little town of Lilford had ex- and men, and its annual pay rolls

large as Chicago's, the London force emanation from radium does not

which he was so proud, the blameless you have, gents?"

## About Radium.

ium is ful of interest, and my readers limit to the atomic weight of an He called few witnesses. He might may parton me even if it is again element.

black paper, or otherwise protected emanation from radium is helium. glass sides of the box.

If a piece of sealing-wax is rubbed. so as to excite it electrically, and if the projecting end of the wire is touched with the rubbed sealing-wax, a small charge of electricity is given to the wire, and through it to the The gold leaves, so that they repel each other, and fly apart, making a figure rowing against an angry current. like an inverted V (A). If the wire be There were some gleams of comfort; touched with the finger the electric charge is conducted away through the body, and the leaves swing back

There was nothing but a cloud of Mr. Lonsdale found that the rules, his prospects were bright more about him had been greater to be seed grain trade. Almost every, in the mineral; she therefore separ- fact, however, he seldom gets seed That evening Felix came home late ated the mineral into its groups of perfectly free from weed seeds of from his office; he was tired, owing constituents - uranium, iron, lead, some kind occasionally these are to the hard work and ill-fortune of barium, bismuth, etc. (for the mineral not particularly injurious, but not to its power of discharge. At first she sciously, gain a strong foothold letter for him. It must be from Violet, | thought she had traced the discharg- | before their presence is suspected. ing power to the bismuth group, and In this connection some particulars let? And despite all his sorrows his attributed it to an element which she of the anarysis of seeds from the heart glowed as he thought of her, named "polonium," after her native Department of Agriculture at Otta-

other element of the barium group, kinds of weed seeds were represen possessing enormous powers of discharge, and to this element, which

been determined by Mme. Curie at 225: the atomic weight of uranium is the highest known-240; and er seed. Thus in Red Clover were there is some evidence from its spectrum that radium may have even a ada Thistle, White Cockle, and Ribhigher atomic weight-over 250-and grass; while in Alsike, False Flax, that the sample analyzed by Mme. | White Cockle, Sheep Sorret, Claque-Curie may not have been quite free foil and Black Medick were prevafrom barium, of which the atomic lent.

to me," she said. "What were you have taken an undue advantage of son was almost pathetic in its inten- committed last year just twenty the atomic weight is 232, also pos- cause they are cheaper than, and to murders. In four cases the murders- sesses the power of discharging an a casual calculation and a casual casual sesses. It is usually safe electroscope; and, moreover, that if as dearer grades. It is usually safe ers committed suicide. In all the air be led over salts of thorium, the to regard cheap seed as of inferior avoid buying it.

The subject was taken up by Prof. Rutherford, of Montreal, and by Mr. ples of red clover at an average rate Frederick Soddy, who then worked of 418 seeds per pound; this is concould there be affecting her or hers? And, if there was sad news twelve thousand pounds, and, find-her cago, both in area and in population to her cago, both in area and in population to her cago, both in area and in population to her cago, both in area and in population to her cago, both in area and in population to her cago, both in area and in population to her cago, both in area and in population to her cago, both in area and in population to her cago, both in area and in population to her cago, both in area and in population to her cago, both in area and in population to her cago, both in area and in population to her cago, both in area and in population to her cago, both in area and in population to her cago, both in area and in population to her cago, both in area and in population to her cago, both in area and in population to her cago, both in area and in population to her cago, both in area and in population to her cago, both in area and in population to her cago, both in area and in population to her cago, both in area and in population to her cago, both in area and in population to her cago, both in area and in population to her cago, both in area and in population to her cago, both in area and in population to her cago, both in area and in population to her cago, both in area and in population to her cago, both in area and in population to her cago, both in area and in population to her cago, both in area and in population to her cago, both in area and in population to her cago, both in area and in population to her cago, both in area and in population to her cago, both in area and in population to her cago, both in area and in population to her cago, but in the cago, and the cago, and was no doubt due to her cago, but in the cago, and the cago, and was no doubt due to her cago, but in the cago, and the ca about any one else, why could she ing six of it given elsewhere, he is to her or to her parents—I mean in the active portion remaining in the much better than here. The analysis during the same period there were cold tube. On warming the tube the sis of several samples obtained from "Difference? No-yet I am wrong. 128 homicides reported to the po- active portion was carried forward, Chili, show that dodder is a very that day with a terrible sense of But how is it possible that any She will love me the better mind who went nome bitter things.

She will love me the better things.

Link show that deduct is a very start of the better mind who went nome bitter things.

Chink show that deduct is a very start of the better mind who went nome bitter things. committed suicide, or were them- ium salts "decayed" in a few minutes,

discovered by the Curies, implies that It would not be fair to draw con- radium is continually losing energy, clusions as to the efficiency of our and if the radium salt be dissolved purities. police force from these figures alone. In water some of this energy is ex-The London murders are probably all pended in decomposing a portion of cases of deliberate crime- murder the water into oxygen and hydrogen in the first degree. The Chicago gases. Prof. Rutherford and H. T. cases include in addition not only Barnes have recently shown that crime of passion but also crimes con- "more than two-thirds of the heatcerning the true nature of which ing effect is not due to the radium ed, as there was a notable absence there may be some doubt. The Cook at all, but to the radio-active em- of such impurities as light seeds, County coroner's total of murders anation which it produces from chaff, or weed seeds either larger or for 1902 is only 99. Moreover in itself." In November, 1902, Messrs, smaller than the bulk of the sam-Rutherford and Soddy concluded ple. Small numbers of cockle, black The autumn was come; the golden rests could be made, and in some of from their experiments on the em- medick, and false flax still reanations from radium and thorium mained in the alsike, and of foxtail that they are "inert gases, analo- and ribgrass in the red clover. The gous to nature, to the members of germination was uniformly over the argon family"; and also they ninety per cent. The average quality threw out the surmise, "whether the was therefore considerably better presence of helium in minerals and than that of the seeds retailed in its invariable association with uran- our own markets. It should always ium and therum may not be connect- be remembered, Lowever, by buyers, ed with the radio-activity."

tain minerals; and when Mr. Soddy most profitable. W. A. Clemons, Pub-That was hard; but hardest of all had five and a third times as many, show the spectrum of helium; but was the cruel things said by the officers, who were paid two and a as it "decays," helium is produced the court just when you first began

> We can help ourselves by an anathat just as there is a limit to the

The story of the discovery of rad- own weight), so there may be a

Darcy Lonsdale went home crushed rare metal, as well as the metal it- these elements are is unknown, exself, were capable of impressing a cept in one case; one of the pro-Those were dreary days in Vale photographic plate wrapped u. in ducts of the decomposition of the

"I shall never hold up my head from light. It was also found that | Can the process be reversed? No electroscope, discharged it, the gold of high atomic weight, it may be leaves falling together. An electro- confidently stated that if it is changscope, it may be explained, is a metal ing, it is much more likely that it box with glass sides; through a hole is being converted into silver and in the Ild a wire passes, the stopper copper than that it is being formwhich closes the hole and supports ed from them. At this stage, howthe wire being made of sulphur, or ever, speculation is futile. It is cersealing-wax, or some other material tain that further experiment will which does not conduct electricity. lead to more positive knowledge of From the end of the wire are suspend- the nature of the elements, and of ed two pieces of gold leaf, hanging the transformation which at least down so as to be visible through the some of them are undergoing .- William Ramsay, in London Mail.

## NOXIOUS WEEDS.

Chief Weeds Found In

Clover and Timothy. Department of Agriculture,

Commissioner's Branch, The spread of noxious weeds can be attricuted to no single cause, They seem to be naturally adaptwa should be of interest, as they

ed. Of these, Conquefoil, Pepperoccurs in relatively greater amount, Flax, Lamb's Quarters, Canada This tle and White Cockle were most commonly present, often at the rate of several thousand per poundy In Red Clover and Alsike, of each of which there were several hundred samples analyzed, there were upwards of forty species of weed seeds, those being commonest whose size approximated that of the clovcommonly found Curled Dock, Can-

The primary cause for this pre-While these researches were in vailing condition is no doubt the

> Dodder was present in twelve same import seed from Chili, but as both countries have a common market for their surplus supply, the presence of this impurity in the Chillan seed should afford the Canadian product a considerable advantage. Were it not for this circumstance the Chiliant red clover seed would prove a dan-

gerous competitor, as it is well coi-

ored, plump, and of high vitality, and

with few other objectionable im-

Several samples of exported Canadian alsike and red clover were tained from English seed merchan All these showed a uniform quality, none of them free from weed seeds but had apparently been well cleanthat, while the average quality of Now, I had the good fortune to dis- our seeds may be low, the highest cover helium in 1895; it is one of the grades are always offered for sale, argon gases, and is contained in cer- | and this quality is in the end the

Another Mean Man Exposed. "Now," said the lawyer for the cross-petitioner, as he took the fair. witness in hand, "I want you to tell you creelly?"

"It was on Christmas, two years "What was the nature of the

Brockville Out Milliams' Medicine Co., "No, it is no jest. Hardman will guilty or not. The blameless life of meets with approval is "What will compounds (for the molecules or but I let them send him the bill and groups of atoms fall apart by their | ma gave him all the credit for it."