

The Adventures of Kathlyn

HAROLD MAC GRATH

Illustrated by Pictures from the Moving Picture Production of the Selig Polyscope Co.

(Copyright by Harold MacGrath)

SYNOPSIS.

Colonel Hare, animal hunter, starts from his home in California for Allaha in India. Before leaving he writes a note which he charges his daughters, Kathlyn and Winnie, to open on Dec. 31, if they have not heard from him by that time. He tells them of a title that was conferred on him by the king of Allaha for saving the latter's life.

CHAPTER I-Continued.

The elder sister did not care to infear which was in her own.

news in the envelope? Dad's always chanting as storied Persia. doing something like that. New If only she were on pleasure bent! Year's!

him and made believe they were pun-

the latter and changed his plans completely. He would not play messenand substituted a note. This houri of over it. India!

Midnight. From afar came the mellow notes of the bells in the ancient dead, the new year was born, carrying and promises broken, of good and evil.

"The packet!" cried Winnie. Kathlyn recognized in that call that Winnie was only a child. All the responsibility lay upon her shoulders. and read the note.

The fear in her heart had, as the brown man had anticipated, blinded father's characteristic blunt scrawl.

"Oh, Kit, Kit!" Ah, here it is. Let me see what boat her lips. leaves San Francisco tomorrow. The Empress of India, 6 a. m. I must make that. Now, you're your father's daughter, too, Winnie. You must stay behind and be brave and wait. I shall

have to rouse all India. Now, to pack." When they arrived at the station the passenger train had just drawn out. For a while Kathlyn felt beaten. She would be compelled to wait another week. It was disheartening.

"Why not try the freight, then?" cried Winnie.

"You little angel! I never thought of that!" But the crew would not hear of it

It was absolutely against the company's rules. Kathlyn could have

"It isn't money, miss, it's the rules," said the conductor, kindly. "I can't gerous of all sports. He collects ani-

Kathlyn turned in despair toward the station. It was then she saw the boxed lion on the platform. She returned to the conductor of the freight. Why isn't that lion shipped?"

"We can't carry a lion without an attendant, Miss. You ought to know "Very well," replied Kathlyn. She

smiled at the conductor confidently. "I'll travel as the lion's attendant. You certainly cannot object to that." "I guess you've got me," admitted

the conductor. "But where the dickens will we put the cat? Every car is closed and locked, and there is not an empty?"

"You can easily get the lion in the caboose. I'll see that he doesn't

bother any one." "Lions in the caboose is a new one

on me. Well, you know your dad's business better than I do. Look alive, boys, and get that angora aboard. This charge."

"Kit, Kit!" "Winnie!"

"O. I'll be brave. I've just got to be. But I've never been left alone before." The two girls embraced, and Winnie went sobbing back to the maid who waited on the platform.

What happened in that particular caboose has long since been newspaper history. The crew will go on telling it till it becomes as fabulous as one of Sindbad's yarns. How the lion escaped, how the fearless young woman captured it along, unaided, may be found in the files of all metropolitan newspapers. Of the brown man who found hiding in the coat closet of the cabocse nothing was said. But the sight of him dismayed Kathlyn as no on could have done. Any dark-skinned person was now a subtle menace. And when, later, she saw him peering into the porthole of her stateroom, dismay

Who was this man?

CHAPTER II.

The Unwelcome Throne. when, about a month later, she arrived at the basin in Calcutta. A thousand or more natives were bathing caremo-

niously in the ghat-men, women, and children. It was early morn, and they were making solemn genuflexions toward the bright sun. The water front swarmed with brown bodies, and great wheeled carts drawn by sad-eyed bullocks threaded slowly through the maze. The many white turbans, stirring hither and thither, reminded her of a field of white poppies in a breeze. India! There it lay, ready for her eager feet. Always had she dreamed still into the heart of her charge the about it, and romanced over it, and sought it on the wings of her spirit. Who knows but there may be good | Yonder it lay, ancient as China, en-

If only she knew some one in this The collie, released from the kitchen, great teeming city! She knew no one; came bounding in. In his exuberance she carried no letters of introduction, he knocked over a cloisonne vase. Both no letters of credit, nothing but the girls were glad to welcome this di- gold and notes the paymaster at the version. They rose simultaneously farm had hastily turned over to her. and gave chase. The dog headed for Only by constant application to maps the outdoor studio, where they caught and guide books had she managed to arrange the short cut to the far kingdom. She had been warned that it Quietly the watcher entered through was a wild and turbulent place, out of the window, alert and tense. He flew the beaten path, beyond the reach of to the desk, found the envelope, iron rails. Three long sea voyages: steamed it open at the kettle, extract- across the Pacific (which wasn't), ed the sealed envelope and Colonel down the bitter Yellow sea, up the Hare's note. He smiled as he read blue Bay of Bengal, with many a sea change and many a strange picture. What though her heart ached, it was ger; he would use a lure instead. With impossible that her young eyes should his ear strained for sounds, he wrote not absorb all she saw and marvel

Sa'adi would not pause to note the The strange, elusive Hindu had disdifference in writing; the vitalness of appeared after Hongkong. That was the subject would enchain her a weight off her soul. She was now thoughts. It was all accomplished in assured that her imagination had be the space of a few minutes. Smiling, guiled her. How should he know anyhe passed out into the fast settling thing about her? What was more natural than that he should wish to They were shipping a lion to San hurry back to his native state? She Francisco, and the roaring and con- was not the only one in a hurry. And fusion were all very satisfactory to the there were Hindus of all castes on all three ships. By now she had almost forgotten him.

There was one bright recollection to Spanish mission. The old year was break the unending loneliness. Coming down from Hongkong to Singapore with it the unchanging sound of hap she had met at the captain's table a piness and misery, or promises made young man by the name of Bruce. He was a quiet, rather untalkative man, lean and sinewy, sun and wind bitten. Kathlyn had as yet had no sentimental affairs. Absorbed in her work, her father, and the care of Winnie, such She ripped the cover from the packet young men as she had met had scarcely interested her. She had only tol-"Kathlyn: If not heard from I'm held erant contempt for idlers, and these captive in Allaha. Sealed document young men had belonged to that catecan save me. Bring it yourself to Al- gory. Bruce caught her interest in laha by first steamer. FATHER." | the very fact that he had but little to said that crisply and well her to the fact that this was not her ness of his eye, though before her he ly. They would have made way with never exercised this power. A dozen her for an anna-piece. Rao was a Ma-"Hush, Winnie! I must go, and go taking him into her confidence, but the obeyed. alone. Where's the evening paper? irony of fate had always firmly closed

fatal mistake her reticence had been. A friend of her father!

Bruce had left the Lloyder before leave till morning she had elected to remain over night on the German boat. As Bruce disappeared among the disembarking passengers and climbed

captain, who stood beside her. "Do you know Mr. Bruce?" "Very well," said the German. "Didn't he tell you who he is? No? Rao?" Ach! Why, Mr. Bruce is a great huntbooks, climbed the Himalayas. Only last year he brought me the sack of a

Then Kathlyn knew. The name had been vaguely familiar, but the young man's reticence had given her no opportunity to dig into her recollection. Bruce! How many times her father had spoken of him! What a fool she had been! Bruce knew the country her father; and he could have simplified her journey to the last word.

called and done over. "My father is a great hunter, too." she said simply, eyeing wistfully the road taken by Bruce into town.

Well, what was done could not be re-

"What? Herr Gott! Are you Colonel Hare's daughter?" exclaimed the

"Yes." He seized her by the shoulders. Why did you not tall me? Why, Colonel Hare and I have smoked many a Burma cheroot together on these waters. Herr Gott! And you never said is Miss Hare herself, and she'll take anything! What a woman for a man at my table for five days, and only now her eyes flashed. Whatever dangers had been laid underground for the I find that you are Hare's daughter! And you have a sister. Ach, yes! He them with courage and patience. was always taking out some photographs in the smokeroom and showing

> them to us old chaps." Tears filled Kathlyn's eyes. In an of the British Rai, and with her two laamed small hands and woman's mind she must find him! Always the mysterious packet lay close to her heart, never for a moment was it beyond the reach of her hand. Her father's freedom!

The rusty metal sides of the ship scraped against the pier and the gangplank was lowered; and presently the tourists flocked down with variant emotions, to be besieged by fruit sellers, water carriers, cabmen, blind beg-gars, and maimed, naked little children with curious, insolent black eyes, women with infants straddling their hips, stolid Chinamen: a riot of color

and a bewildering babel of tongues.

Kathlyn found a presentable carriage, and with her luggage pressing about her feet directed the driver to

the Great Eastern hotel. Her white sola-topee (sun helmet) had screely disappeared in the crowd when the Hindu of the freight caboose emerged from the steerage, no ously. Rao salaamed

longer in bedraggled linen trousers and ragged turban, but dressed like a then proceeded to the railway station. age should be amply repaid. In six smiled at her curiously, but she was this throne while I live? It is mine. the meddling British Raj, in his own like a pattern woven in an Agra rug.

She knew that she was not going to on their faces was not pleasing. be afraid of anything hereafter. To all this time? Doubtless in a cell like

outs to engage elephants for the three mountainous divides to the capital. only one religion—self. Three elephants were necessary. There were two howdah elephants and one pack elephant, who was always magnificent trees they passed, across hot, blistering deserts, dotted here and there by shrubs and stunted trees, in and out of gloomy defiles of flinty rock, over sluggish and swiftly flowing streams. The days were hot, but the nights were bitter cold. Sometimes a blue miasmic haze settled down, and the dry, raspy hides of the elephants grew damp and they fretted at their

Rao, the khitmatgar Kathlyn had hired in Calcutta, proved invaluable. Without him she would never have succeeded in entering the strange country; for these wild-eyed Mahomedan mahouts (and it is pertinent to note that only Mahomedans are ever



Kathlyn on Her Way to Allaha.

There was something authoritative in tenets of Hinduism to kill or ride anythe shape of his mouth and the steadi- thing that kills) scowled at her eviltimes she had been on the point of homedan himself, so they listened and

All this the first day and night out On the following morning a leopard And now, waiting for the ship to crossed the trail. Kathlyn seized her warp into its pler, she realized what a rifle and broke its spine. The labbering of the mahouts would have amused her at any other time

"Good, memsahib," whispered Rao. come back. I shall find father, if I dinner (at Singapore), and as Kath- "You have put fear into their devils" lyn's British-India coaster did not hearts. Good! Chup!" he called. "Stop your noise."

After that they gave Kathlyn's dog tent plenty of room. One day, in the heart of a natural into a rickshaw she turned to the clearing, she saw a tree. Its blossoms and leaves were as scarlet as the seeds of a pomegranate.

"O, how beautiful! What is it. "The flame of the jungle, memsahib. er. He has shot everything, written It is good luck to see it on a journey." About the tree darted gay parrakeets and fat green parrots. The green liant scarlet of the tree was indescribably beautiful. Everywhere was life, everywhere was color. Once, as Kathlyn busied with the tea over a striped cat to other hunting grounds. gleams.

offer battle except when attacked. Meantime the man who had followed

Kathlyn arrived at the city. out of her howdah, gave Rao the money for the mahouts, and looked about. This was the gate to the capi- of the shriveling years, and desire tal. How many times had her father to marry!" he laughed. "You have sat passed through it? Her jaw set and beset her she was determined to meet

> "Rao, you had better return to Calcutta. What I have to do must be done alone." "Very good. But I shall remain here

Indian prison, out of the jurisdiction till the memsahib returns." Rao sa-"And if I should not return?" affect-

ed by this strange loyalty. Then I shall seek Bruce Sahib, who has a camp 20 miles east." "Bruce? But he is in Singapore!"

a quickening of her pulses. "Who can say where Bruce Sahib is? He is like a shadow, there today, here tomorrow. I have been his servant, and the brush demands mass, or per memsahib, and that is how I am today haps it is more correct to say that yours. I received a telegram to call at your hotel and apply to you for service. Very good. I shall wait. The sahout here will take you directly to the form, is silhouette. Silhouette, in Hare Sahib's bungalow. You will find your father's servants there, and all will be well. A week, then. If you do not send for me I seek Bruce Sahib, and we shall return with many. Some will speak English at the bu "Thank you, Reo. I shall not for

"Neither will Bruce Sahib," mysteri-

Kathlyn got into the howdah and throne-you, a white man, knowing passed through the gates. Bruce Sa- it was a legacy of terror and confunative for. He was in no hurry. Leis- hib, the quiet man, whose hand had sion. You knew. Why did you reurely he followed Kathlyn to the hotel, reached out over seas thus strangely turn? Ah, pearls and sapphires and to reassure her! A hardness came emeralds! What? I offer you this He had need no longer to watch and into her throat and she swallowed des- throne upon conditions." worry. There was nothing left now perately. She was only twenty-four. "And those conditions I have rebut to greet her upon her arrival, this Except for herself there might not be fused." golden houri from the verses of a white person in all this sprawling. Sa'adi. The two weeks of durance rugged principality. From time to smiled. Then he suddenly blazed forth: vile among the low castes in the steer- time the new mahout turned and "Think you a white man shall sit upon

days he would be beyond the hand of too absorbed to note his attentions. I was his heir." Durga Ram, called lightly Umballa. country. Sport! What was more went directly to the palace, where he the leopard? I'll tell you why. You beautiful to watch than cat play? He knew the Council of Three solemnly expected to inherit on the spot. and was the cat, the tiger cat. And what awaited his arrival. He dashed up the I spoiled the game. Is that not true?" would the Sahib Colonel say when he imposing flight of marble steps, exultfelt the claws? Beautiful, beautiful, ant. He had fulfilled his promise; the lently. golden daughter of Hare Sahib was "Umballa, or Durga Ram, if you Kathlyn began her journey at once. but a few miles away. The soldiers, wish, listen. Take the throne. What's Now that she was on land, moving to guarding the entrance, presented their to hinder you? You want it. Take it ward her father, all her vigor returned. arms respectfully; but instantly after and let me begone." She felt strangely alive, exhilarated Umballa disappeared the expression

Umballa hurried along through the It would be fine to proclaim myself enter the strange country without hav- deep corridor, supported by exquisite- when mutiny and rebellion stalk about. ing her purpose known would be the ly carved marble columns. Beauty in Am I a pig to play a game like that? main difficulty. Where was Ahmed stone was in evidence everywhere and Tch! Tch!" He clicked his tongue magnificent brass lamps hung from against the roof of his mouth in dethe ceiling. There was a shrine topped rision. "No; I need a buckler till all Three days later she stood at the by an idol in black marble, incrusted this rolly water subsides and clears." frontier, and her servant set about with sapphires and turquoises. Durga arguing and bargaining with the ma- Ram, who shall be called Umballa, Sahib's throat? I am not afraid of nodded slightly as he passed it. Force death, Umballa. I have faced it too days' march through jungles and of habit, since in his heart there was many times. Make an end of me at

He stopped at a door guarded by a lagging behind. Through long aisles of the throneroom. The throne itself No; I repeat, I will free all slaves, abolat the approach of Umballa. "She is here," he said haughtily.

The Council salaamed

Umballa stroked his chin as he the Tibetan incense, and shrugged. It Sahib's bungalow and await me. I shall be there presently. There is the door. plenty of time. And remember our four heads depend upon the next few hours. The soldiers are on the verge of mutiny, and only success can pacify them.'

He turned without ceremony and left them. With oriental philosophy they accepted the situation. They had sought to overturn him, and he held them in the hollow of his hand. During the weeks of his absence in America his spies had hung about them like bees about honey. They were the fowlers snared.

Umballa proceeded along the corridor to a flight of stairs leading beneath the palace floor. Here the soldiers were agreeable enough; they had reason to be. Umballa gave them new minted rupees for their work, many rupees. For they knew secrets. Before the door of a dungeon Umballa paused and listened. There was no sound. He returned upstairs and sought a chamber near the harem. This he entered, and stood with folded arms near the door.

"Ah, Colonel Sahib!" "Umballa?" Colonel Hare, bearded, his enemy. "You black scoundrel!"

Ram, sanib. Words, words; | balla the patter of rain on stone roofs. Our king lives no more, alas!" "You lie!"

"You have, yes, but now-" Umballa

"Then why didn't you save him from "And what if I admit it?" trucu-

"Yes. I want it; and by all the gods

of Hind I'll have it-but safely. Ah!

"And then, some fine night, Hare once or leave me to rot here, my answer will always be the same. I will single soldier, who saluted but spat not become a dishonorable tool. You as soon as Umballa had passed into have offered me freedom and jewels. was vacant. The Council of Three rose ish the harems, the buying and selling of flesh; I will make a man of every poor devil of a coolie who carries

Umballa laughed. "Then remain gazed at the huge candles flickering here like a dog while I put your golden at each side of the throne. He sniffed | daughter on the throne and become what the British Raj calls prince conwas written. "Go," he said, "to Hare sort. She'll rebel, I know; but I have a way." He stepped outside and closed

"Umballa?" "Well?" "Kit, my daughter? Good God, what is

tones from your quarries."

she doing here when I warned her?" Hare tugged furiously at his chains. "Durga Ram, you have beaten me. State your terms and I will accept them to the letter. . . . Kit, my beautiful Kit, in this hell hole!"

"Ah, but I don't want you to accept now. I was merely amusing myself." The door shut and the bolt shot home. Hare fell upon his knees. "My head. my head! Dear God, save me my reason!'

The moment Kathlyn arrived at the animal cages of her father she called for Ahmed.

"My father?" "Ah, memsahib, they say he is dead.

know not. One night-the second after we arrived-he was summoned to the palace. He never came back." "They have killed him!" "Perhaps. They watch me, too; but

act simple. We wait and see." Kathlyn rushed across the ground intervening between the animal cages

and the bungalow. There was no one unkempt, tried to stand erect and face in sight. She ran up the steps . . . to be greeted inside by the suave Um-"You?" her hand flying to her bosom.

"I, Miss Hare." He salaamed, with sweeping gesture of his hands. (TO BE CONTINUED.)



BY THE POOL OF THE LOTUS | NORWAY'S PERIOD OF GLORY

Thoughts of Inmates of the Harem Not Always Pleasant, Despite Surroundings of Beauty.

The best of all in this embroidery of running water was the square pool tion of Norway's centennial was a stone that lay in the midst of the zenana, carved with old runic characters. It musk deer, and that is the most dan- plumage of the birds against the bril- for the bottom of it was carved into was found in Nova Scotia more than the image of a huge and many-petaled a century ago, but for a long time lotus flower, all of one block of white no one could read the roughly carved marble without flaw or stain, and the runes. This was done at last by an the natives seated themselves of the petals seemed astir when the clear American scholar, who found that the evening round their dung fire while crystal passed flowing over them. And inscription was cut by a Norse exat each corner of the lotus, completwood fire, a tiger roared near by. The ing the square, were triangular panels the summer of 1007 A. D., bound for elephants trumpeted and the mahouts of delicate water flowers, and through the coast of New England. They rose in terror. Kathlyn ran for her the water the carnelian and the agate landed in Nova Scotia on their way, she was going to, perhaps as well as rifle, but the trumpeting of the ele- and the jasper of which they were and left this record of their trip. phants was sufficient to send the fashioned shone strangely with vivid

Wild ape and pig abounded, and occasionally a caha wriggled out of the to sit the flowers of Shah Jehan's garsun into the brittle grasses. Very few den of girls, and there is no pool on beasts or reptiles are aggressive; it earth that has reflected the image of the tenth and eleventh centuries. they turn. Even the black panther, the lily, the chief flower and favorite of most savage of all cats, will rarely the harem, sit there with unsandaled England to the delta of the Nile. They lord, and sometimes a cloud would thrones of Europe. They harried ev-Five hours later Kathlyn stepped flected there when she considered that her beauty be marred by the wrinkles ground for believing that a party of would fail, and long after her lips had far inland as Minnesota, doubtless by crumbled into dust and her soft limbs worm and the red ant to fatten upon. the water that flowed there would be adventure, rather than in art, literaever renewed and know not the hor- ture or civilization; but while it lasted ror of age.-From "Dewan-i-Khas" (the Hall of Private Audience), by E. F. Benson in the Century.

Silhouette and Painting The art of painting begins inevitably with drawing—with expression by means of the point—the result: line. This every teacher and academy realizes and has to realize. More; every great school of painting has evolved from it. But this use of the point, or drawing, soon reaches its limitations, haps it is more correct to say mass demands the brush. The floating of masses on to canvas or paper with its edges holding the outline of other words, is the basis of all mass mpressions; without a sense of silsublime moods. Yet, strange to say, the small part given to silheuette in the small part given to sinusciecte in the teaching of the art of painting in academies—indeed, more often the utter lack of it—has always struck me as extraordinary.—Haidane Mac-full in T. P.'s Weekly, London.

Deeds of Norsemen in Tenth and Eleventh Centuries Marked Flowering Time of Nation.

One of the features of the celebraploring party that left Greenland in

What a glimpse this gives us of the daring spirit of those old pioneers of

The world has never seen a braver breed of sailors than the Norsemen is only when they feel cornered that of such beauty. Often did the pearl They pushed their voyages of plunder and discovery from the rocks of New feet, waiting for the summons of her seated their chieftains on half the pass over the image of her face re- ery civilized coast within reach, and barbaric shorelands they settled, or, soon her loveliness would pass and at least, explored. There is even some Swedes and Norwegians penetrated as way of the great lakes.

It was the flowering time of a na tion, expressed in terms of daring and it was one of the wonder epochs of the

How London Women Vote. The house of lords, after two days debate, rejected Lord Selborne's bill for the enfranchisement of a million women. The picked women of the bill are those who now enjoy the municipal franchise. "Enjoy," perhaps, is a word of too sanguine a complexion. Only 30 per cent of the women entitled to vote at election for the London county council think it worth while.—Saturday Review.

Discoverer of the Pacific. The discoverer of the Pacific ocean vas Vasco Nunez de Balboa. On the early morning of the 25th of Septem

ber, 1513, Balboa, and a small party of men, made their laborious way up the densely covered face of a steep ridge from the summit of which they were rewarded with the vision of the great had never been seen by the eye of

NOT DIFFICULT TO HANDLE FALL LITTER



Profits From Fall Litters Depend on Care and Management.

age the practice of breeding their sows | swine breeder and feeder.

to farrow two litters a year. In fact, some writers upon swine dispose of every pig farrowed later

than the first week in September. Both observation and experience have convinced me that the profits much on the care and management of ing. the young pigs as they do on the time they are farrowed.

Unless a man has comfortable hog houses and abundance of room to provide exercise for the fall pigs he should not attempt to grow them.

Personally I feel sure that I can summer. make a profit, as large profit, from a Fall pigs that are given an abunlimited number of fall pigs as I can dance of palatable, nourishing food, from the litters that are farrowed dur- abundance of exercise and a dry sleeping March and April.

and the young pigs possess more vi- tion and make profitable lightweights tality and strength than the litters for the summer market or excellent that are farrowed in the spring after feeders to place in the feed lot the the sows have been without exercise and abundance of succulent foods that are hard to obtain during the win-

mer is better adapted to the develop- but one litter a year.

Many successful breeders and feed- | ment of the unborn pigs than the winers of swine are inclined to discour- ter rations that are fed by the average

The sow that has been allowed the run of the pasture and the forage subjects are inclined to believe that crops during the summer is usually in it will pay a man to kill, or otherwise ideal condition for the ordeal of far-

rowing. The class of farm feeds available during the fall is better adapted to the needs of the sow and pigs than from the fall litters depend fully as feeds that are available for spring feed-

If winter dairying is being practiced the skim milk may be utilized at a good profit in feeding the pigs and they will be in excellent condition to make the best possible use of the pasture and forage craps the following

ing place can be made to come through The fall pig crop is easier to handle the winter in a thrifty, growing condi-

following fall. The sows that are bred for two litters a year are sure to continue more regular and certain breeders. We have Then again the sows' ration of pas- found it very difficult to get our sows ture and forage crops during the sum- safe with pig when they were bred for

FERTILITY NOT LOST IN FEEDING ALFALFA

Crop Draws Most Heavily on Brahmas and Cochins Being Lime and Potash, Resembling Clover in This Respect.

An alfalfa field will yield on an avmatter. The number of pounds of they should not be compelled to. each of the four most important ash pared with clover hay, is as follows: Potash-alfalfa, 206 pounds; Gover, 66; phosphates-alfalfa, 58 pounds; clover, 28; lime-alfalfa, 89 pounds; clever, 76; magnesia-alfalfa, 22

pounds; clover, 17. Alfalfa draws most heavily on the lime and potash, resembling clover in this respect, but because of its heavier yield per season, a greater quantity of these ash constituents is removed. If the alfalfa is fed on the farm and the manure well preserved and returned to the land, but little fertility is lost. If it happens that the soils are poor in these constituents, fertilizers of lime in the form of land plaster and potash in the form of wood ashes can

be profitably applied. With the aid of nitrogen gathering bacteria, alfalfa, like clover, can use the free nitrogen of the air, still it must not be inferred that a fair supply of nitrogen in the soil is unnecessary or that the application of nitrogenous fertilizers is always wasteful. Professor Dyer of England has shown by careful experiments that the "use of moderate quantities of nitrate of soda has been decidedly remunera-

tive." He found that in five years, an annual dressing of one hundredweight of nitrate of soda per acre gave an increase of nearly three tons of green alfalfa fodder per acre per year, while an annual dressing of two hundredweight per acre gave an increase of four and a half tons of fodder per acre per year. From this he calculated that there was annual profit due to nitrate of a little more than four dollars per acre in the first case and over six dollars per acre in the second case.

Water Required for Crops. It takes water to produce a crop of water which the weeds get is that not raised more extensively is because much taken away from the crop. A garden crop between the rows in a young orchard is all right, provided there be pienty of water for both the garden and the orchard. An orchard under dry conditions needs all of the available water. Conserve as

Winter Cover Crops. Rye, barley, wheat and oats make the best of winter cover crops and improve the soil when plowed under by increasing the vegetable matter. A combination of one of the clovers or vetch and one of the grains for cover and green manure crops is often petter than any single plant.

Don't Neglect Poultry. Don't neglect the poultry at this sea son of the year when other duties press, or you will not find the poultry as profitable next fall on account of not having done so well during the

No Medicine Required. Healthy animals require no medi-cine, conditions in them may be es-tablished and maintained by intelligently applied alteration in the quan-tity and quality of their food and la-

HEIGHT OF ROOSTS FOR THE ASIATICS

Quite Heavy Fowls Should Not Be Compelled to Fly.

Roosts for Brahmas or Cochins erage 8,000 pounds of cured hay per | should not be more than a foot above acre in one season. This cured hay ground. Being very heavy birds, they will contain about 6,880 pounds of dry | cannot easily fly, and it is better that

Some breeders do not allow them to constituents removed from an acre by roost at all, but instead heavily bed a season's crop of alfalfa hay, as com- the floor of the pen and allow the fowls to squat wherever they feel inclined

But in allowing them to roost on the floor, care must be taken that there are no drafts, which often is the case if the doors do not fit tightly. Leaves or cut straw make good bedding for such fowls, and if each morning the droppings are collected the birds will do as well on the floor as on the roosts.

TELEPHONE AS AID TO AGRICULTURIST

Does Its Work With Lightning-Like Rapidity and Saves Farmer Much Valuable Time.

In these days of scarcity of help on the farm the value of the telephone is becoming more thoroughly appreciated. It does its work with lightning like rapidity and saves hours. and even days, in time, when it is most valuable. It carries messages to the town, the neighbors, and brings the doctor, help and aid at all hours of the day or night. It seldom goes on strike and generally speaking is the most reliable help on the farm.

Vetch is Valuatie Hay. Vetch is an annual. There is danger of its reseeding itself unless cut at the proper time and will cause considerable trouble to cradicate, especially where wheat is grown. Vetch should be cut for hay when well in the blossom, or three or four days before the entire plant is in bloom. It is cured the same as clover or altalfa and makes a very vallable hay. Probweeds. If that be true, and it is, the ably one of the reasons why vetch is

of the expensiveness of the seed.

Best Grass for Dry Areas. Brome grass is probably the best of the cultivated grasses to grow in dry areas. When established it will furnish grazing early in the season, not much of it as possible by maintaining so early as winter rye, but earlier than a constant dust mulch between the the native grasses. It will also furnish grazing in the autumn proportionate to the amount of the precipitation. During the entire season, therefore, it should furnish much more grazing than the native grasses.

Failure of Trees. Lack of fibrous roots is a leading cause of the failure of so many young forest trees dug up in the woods and transplanted.

Benefit of Straining. Straining does not purify milk. It nerely gets out the visible dirt. That which cannot be seen is the most harmful.

Segregate Sick Fowls. Never allow sick fowls to be with the balance of the flock; many poultry diseases are contagious.

Adds to Durability. Paint adds much to the appearance and durability of poultry buildings and is a good investment.