

CROPS THAT ARE SOIL IMPROVERS

Enriching the Farm Without Robbing the Soil

Farmers who do not have a regular crop rotation and do not include the leguminous crops (clovers and alfalfa) are not going to succeed. The adverse influence upon clover are lack of drainage, lack of lime and soil acidity. Much waste goes on where high priced clover seed is put into land so sour that clover bacteria cannot thrive. Farms in this condition rapidly decline as they are denied the medium that would enrich them and their own.

Alfalfa has somewhat a similar history; the only difference between them is that clovers are suitable for short rotations and alfalfa fits in where longer rotations are necessary. But like clover, alfalfa will not grow on a wet soggy soil or on a soil that has a hard pan under the surface for 3 or 4 feet with underwater undrained away. Alfalfa cannot be grown upon soil that is deficient in lime or that upon which cannot be grown any other crop or where there is insufficient fertility. The roots of alfalfa and clover fill the soil with organic matter, improving the condition of the soil and sub-soil. Their roots often penetrate down to the distance of eight feet in their search for food.

Clovers, alfalfa and all leguminous plants are soil improvers; the more they are grown the better the land will be where they are grown thus contributing to the building up of the rest of the farm. They are dual purpose plants, they feed the soil and the cow in the barn at the same time.

The winter killing of clover is largely climatic, but much of its evil effects can be overcome by under-draining and liming, and getting land in fertile shape to resist the climatic conditions. Winter killing of clover does not however, effect its utility as a soil improver when plowed under.

BOTTLE TRAVELS 40 MILES A DAY

MONTREAL, Quebec, September 19.—Having flung a bottle containing a message over the side of the Duchess of Athol off the coast of the Grand Banks, July 3, of this year, Rev. Brother O'Ryan, of this city, was astonished this week to get a letter from Michael Shields, Donegal, Ireland, saying he had picked up the far-flung message in a broken bottle not far from his home, on August 4. To get so far so soon, the bottle had to travel about 40 miles a day, it is estimated.

Bro. O'Ryan, 5561 Jeanne Mance Street, when off the Grand Banks, wrote the following message, which is scribbled in ink, now partially blurred, and which has been brought into The Star as evidence:

"This was thrown overboard in 51° 25' N. Lat., and 39° 33' W. Lon. It found, will find inform Mr. Charles O'Ryan, 3501 Durocher Street, Montreal, Canada."

Back has come the following letter, from Derryhassen, Downeng's Bay, County Donegal, Ireland, and dated August 14:

I have much pleasure to inform you that the bottle which you threw overboard from the steamship Duchess of Athol, on July 3, 1935, reached the shore near Downeng's on the coast of Sheephaven Bay, Donegal County, but was evidently broken against the rocks. Your message which was enclosed was accidentally discovered and I herewith return same to you. It was handed to me and on personal of same saw that you wished to be communicated with.

"It was discovered on August 4, 1935, and a broken bottle was found beside it, at the above spot. I hope this letter will safely reach you. I am, yours very truly, Michael Shields, Magistrate."

BELLEVILLE, Ont., Sept. 21.—The bodies of Mr. and Mrs. William Ross of Minnesota, killed yesterday when their car was struck by a Canadian Pacific Railway train, remained here last night as police communicated with relatives in Stillwater, Minn.

Theatre of The Air

ALL TIMES ANNOUNCED ON THIS PAGE ARE ATLANTIC STANDARD TIME

SATURDAY'S PROGRAMMES

CFNB, FREDERICTON, 550 K.
8.10—"The Listening Post"
8.30—Enterprise Foundry Program
9.00—Birthday Party (Children's)
9.30—Maytag Melodies
11.00—Happy Warrior Hour
12.00—Purina Program
12.15—Building Products Program
12.30—Sherwin Williams Musicale
1.00—Waltz Time (Frigidaire)
1.30—Royal Waltz Concert Orchestra
2.00—Marconi Hour
5.00—All request program
5.30—B.E.S.L. Program
6.00—Band Concert.
6.15—Canada Cement Program
6.30—Burgess Battery Program
6.45—Dinner Music
7.00—News Bulletins
7.15—Dance Music
7.30—Breezin' Along, Windsor
7.45—Canadian Press News
8.00—Bert Anstice and his Mountain Boys
8.30—From a Rose Garden
9.00—Conservative Broadcast
10.00—Fiesta
10.30—Howard Fogg Orch.
11.00—Canadian Press News
11.15—Chas. Dornberger's Orchestra
11.30—Ray Noble's Orch., New York.

WABC, NEW YORK, 860 K.
4.45—Tito Gulzar, tenor
5.15—Madison Ensemble
5.30—Elsie Thompson at the Organ
Evelyn McGregor, contralto.
6.00—Frederic William Wile
6.15—Saundra Brown's songs
6.30—Allan Leaffer's Orchestra
6.55—Press-Radio News
7.15—Johnny Hamp's Orchestra
7.30—Spanish Serenade
8.00—Columbia's Concert Hall
8.30—To Be Announced
8.45—The Troopers
9.00—Columbia's Concert Hall
9.30—California Melodies
10.00—Fiesta from CRC
10.30—Buddy Rogers' Orchestra
11.00—Frank Dailey's Orchestra
11.30—Claude Hopkins' Orchestra
12.00—Monte Carlson's Orchestra
12.30—Dick Messner's Orchestra

CKAC, MONTREAL, 730 K.
5.15—Captivators
5.30—The Fireside Program
6.15—Le Bon Parler Français
6.30—Bellevue College of Music
6.45—Allan Leaffer's Orchestra
6.55—Press-Radio News
7.00—Nouvelles de Presse
7.30—Spanish Serenade
8.00—He, She and They
8.30—To Be Announced
8.45—H. V. Kaltenborn, London
9.00—Columbia's Concert Hall
9.30—California Melodies
10.00—Variety Show
10.30—Buddy Rogers' Orchestra
11.00—Le Reporter Sportif Molson
11.15—Abe Lyman's Orchestra
11.30—Claude Hopkins' Orchestra
12.00—Frank Dailey's Orchestra
12.30—Dell Coon's Orchestra

WEAF, NEW YORK, 660 K.
4.15—The Norsemen
4.30—Our Barn
5.00—Blue Room Echoes
5.30—Austin Wylie's Orchestra
6.00—Ernie Madriguera's Orchestra
6.30—Press-Radio News
6.50—Temple of Song
7.00—News
7.15—Merry Macs
7.30—"The Art of Living"
7.45—Popeye the Sailor
7.50—The Sizzlers
7.55—The Briggs Sports Parade
8.00—The Hit Parade
9.00—G Men
9.30—The Shell Chateau, starring A. Jolson with guests artists
10.30—Dorsey Brothers' Orchestra
11.00—To Be Announced
11.30—Paul Whiteman's Orchestra
12.00—Ozzie Nelson Orchestra
12.30—Paul Pendaro's Orchestra

WTIC, HARTFORD, 1040 K.
3.30—Music Guild
4.00—Carol Deis
4.15—Two Diplomats of Song
4.30—Our Barn
5.00—Blue Room Echoes
5.30—Austin Wylie's Orchestra
6.00—Wrightville Clarion
6.30—Press-Radio News
6.50—Merry Macs
7.00—Mountaineers
7.15—Jamboree
7.45—Thornton Fisher on Sports
8.00—Lenny Hayton's Orchestra
9.00—G Men
9.30—Al Jolson; Victor Young's Orchestra
10.30—Dorsey Brothers' Orchestra
11.00—News
11.15—Program from New York
11.30—Paul Whiteman's Orchestra
12.00—Silent

WJZ, NEW YORK, 760 K.
3.30—Music Magic—Roy Shields' Orchestra; Ruth Lyon, soprano; Cyril Pitts, tenor.
4.00—Teddy Hill Orchestra
5.15—Jackie Heller, tenor
5.30—Temple of Song
5.50—Ken Sparman
6.15—Dot and Will
6.30—Press-Radio News
6.45—Morin Sisters, harmony trio
6.55—Eddie South's Orchestra
7.15—Master Builders Program
7.30—Rabbi Jonah B. Vise
8.20—Jamboree
9.30—National Barn Dance
10.30—Carefree Carnival
11.00—El Chico Spanish Review
11.30—Ray Noble's Orchestra
12.00—Shandor, violinist
12.08—Bob Chester's Orchestra
12.30—Chas. Dornberger's Orchestra

WGY, SCHENECTADY, 790 K.
3.30—NBC Music Guild
4.00—Carol Deis soprano
4.15—Our Barn

4.30—Our Barn
5.00—Musical Program
5.30—Austin Wylie's Orchestra
6.00—Dance Orchestra
6.30—Press-Radio News
6.45—Saratoga Race Results
6.55—Baseball Scores
7.00—The General Electric Program
6.55—Evening Brevities
7.30—Jamboree
7.45—Briggs Sport Parade—Thornton Fisher
8.00—The Hit Parade, Lennie Hayton
9.00—"G Men"
9.30—The Shell Chateau, Al Jolson; Victor Young and his Orchestra

10.30—Summer Follies
11.00—Jolly Coburn's Orchestra
11.30—Dance Orchestra
12.00—Dance Music
12.30—Dance Band
1.00—WGY Sign Off

SUNDAY'S PROGRAMMES

CFNB, FREDERICTON, 550 K.
6.00—Band of H. M. Canadian Grenadier Guards, Montreal
6.30—Une Serenade Lyrique
7.00—Rex Battle Orchestra
7.45—Summer Serenade
7.50—Summer Serenade
8.00—Pastel Panels, soloist
8.30—Band Box Revue, Detroit
9.00—Radio Theatre Guild, Montreal.
9.30—Horace Heidt's Concert, Detroit
10.00—Petite Symphonie de Radio-Canada, Quebec.
10.30—The Road to Yesterday, soloists and Orchestra, direction Roland Todd, Toronto
11.00—Canadian Press News
11.15—Cello Quartet
11.30—Atlantic Nocturne, readings by J. Frank Willis with Allan Reid at the organ and Leon Bolko-otsky, violinist, Halifax.

WABC, NEW YORK, 860 K.
4.00—St. Louis Parade
5.00—Melodiana.
5.30—Frank Crumit and Julia Sanderson
6.00—"National Amateur Night." Ray Perkins, Master of Ceremonies
6.30—"Smiling Ed" McConnell
6.45—Voice of Experience
7.00—Vivian Della Chiesa, soprano.
7.30—Summer Serenade
8.00—"Rhythm at Eight" with Ethel Merman, vocalist
8.30—Gulf Headliners, Will Rogers
9.00—America's Hour
10.00—Wayne King's Orchestra
10.30—Benay Venuta, songs
10.45—Congressional Opinion
11.00—Salon Moderne
11.30—Press Radio News
11.35—Frankie Dailey's Orchestra
12.00—Frankie Master's Orchestra
12.30—Dick Messner's Orchestra

CKAC, MONTREAL, 730 K.
5.00—Opera Time
5.30—Waltzing with Wayne King
5.45—Foreign Mission
6.00—Concert Orchestra
6.30—Chamber of Commerce
6.45—Programme Granger Freres
7.00—Vivian Della Chiesa, soprano
7.30—Church service
9.00—American Hour
10.00—Radio Theatre
10.30—Benay Venuta, songs
10.45—Review of Week's News
11.00—Salon Moderne, San Francisco
11.35—Johnny Hamp's Orchestra
12.00—Frankie Master's Orchestra
12.30—Frank Dailey & Orchestra
1.00—Sign Off

WEAF, NEW YORK, 660 K.
4.00—Jesse Crawford
4.30—Dot Dreslein, pianist
5.00—America's First Rhythm Symphony
5.30—Dream Drama
5.45—Ray Heatherton, baritone.
6.00—Catholic Hour
6.30—Invitation to the Dance
7.00—K-7 Spy Story
7.30—Fireside Recitals
7.45—Sunset Dreams, Morin Sisters and Ranch Boys
8.00—Major Bowes' Amateur Hour
9.00—Manhattan Merry-Go-Round
9.30—American Musical Revue
10.00—To Be Announced
11.00—Lee Gordon's Orchestra
11.15—Oriental Garden Orchestra
11.30—Press-Radio News
11.35—Glenn Lee's Orchestra
12.00—Dick Fidler's Orchestra
12.30—Sammy Kaye's Orchestra

WJZ, NEW YORK, 790 K.
3.30—Sunday Vespers
4.00—Willard Robison's Orchestra
5.00—Roses and Drums, dramatic sketch
5.30—Bob Becker's Chats on Dogs
5.45—Oswaldo Mazzucchi, cellist
6.00—Canadian Grenadier Guards' Band
6.30—Campana's Grand Hotel,
7.00—Lenny Ross' State Fair Concert
chestra

7.30—The Voice of the People
8.00—N. B. C. Symphony
8.45—Hendrik Willem van Loon
9.00—The Silken Strings Program—Countess Olga Albani, soprano
9.30—The Jergens Program with Walter Winchell
9.45—Nella Goodell, songs
10.00—Seth Parker
10.30—Alex. Haas' Orchestra
11.10—Press-Radio News
11.15—Shandor, violinist
11.30—Eddie South's Orchestra
12.00—Dancing in the Twin Cities
12.30—Leonard Keller's Orchestra

WTIC, HARTFORD—1040 K.
3.30—Penthouse Serenade
4.00—Jesse Crawford
4.30—Dorothy Dreslein
4.45—Dorothy Dreslein
4.55—The Wise Man
5.00—Kansas City Philharmonic Orchestra
5.30—Dream Drama
5.45—Ray Heatherton and Lucille Manners
6.00—Catholic Hour
6.45—Blue Room Echoes
7.00—K-7 Spy Stories
7.30—Sigurd Nilssen, bass
7.45—Morin Sisters, Ranch Boys
8.00—Major Bowes' Amateur Night
9.00—Manhattan Merry-go-Round
9.30—Merry Madcaps
10.00—To Be Announced
11.01—Boulanger's Orchestra
11.30—PressRadio News
11.45—Glenn Lee's Orchestra
12.00—Silent

WGY, SCHENECTADY, 790 K.
3.30—Penthouse Serenade
4.00—Willard Robison's Orchestra
4.30—The Wise Man, drama
4.45—Dorothy Dreslain, soprano
5.00—America's First Rhythm Symphony
5.30—Dream Drama
5.45—Ray Heatherton and Lucille Manners
6.00—Catholic Hour
6.30—Horse Sense Philosophy.
7.00—K-7 Spy Drama
7.30—Fireside Recitals, Sigurd Nilssen, Graham McNamee
7.45—Morin Sisters and Ranch Boys, trios.
8.00—Major Bowes' Amateur Hour Men About Town
9.00—Manhattan Merry-Go-Round,
9.30—American Musical Revue, Frank Munn, tenor; the Haenschen Concert Orchestra
10.00—Uncle Charlie's Tent Show
11.00—Lee Gordon's Orchestra
11.15—Jesse Crawford, organist
11.30—Press-Radio News
11.35—Dance Orchestra
12.00—Dance Band
12.30—Dance Orchestra
1.00—WGY Sign Off

40,000,000 DUCKS GO FROM CANADA TO WARM CLIMES

Estimate of Experts Who Made an Aerial Survey of Waterfowl—Visited Far North—Found "Lakes Choked With Them in Inspecting Breeding Grounds.

REGINA, Saskatchewan, Sept. 20.—Forty million ducks will wing southward over Canadian skyways this autumn to winter in the southern United States.

This was an estimate ventured by C. S. Bedell, and A. C. Camerle of the "More Game Birds in America" Association. Mr. Bedell is director of the upland game birds division and Mr. Camerle of the waterfowl division.

For some weeks the two traversed the north hinterlands of Manitoba, Saskatchewan and Alberta in the first aerial survey of the waterfowl crop of North America. On their return to Regina they said they were satisfied at the discoveries made of the numbers of ducks in the great breeding grounds of Canada.

There is a wonderful crop of the greater scaups, canvas-back ducks this year. In fact, say the aerial surveyors, there are "lakes choked with them". Mallards are very plentiful and the crop of bluebills is one of the

largest in recent years. In the upland birds division and in the agricultural sections very few observations were made. The opinion of the two surveyors, however, based on contacts made in the provinces, is that the upland game bird crop is a fairly large one.

Two aeroplanes were used for the survey over Manitoba, Saskatchewan and Alberta and the further north points reached were McMurray and Fort Smith. As the McKenzie delta territory is further north, Mr. Bedell and Mr. Camerle pointed out, they by no means covered the whole of the breeding grounds of northern Canada. The McKenzie delta, they know, is the greatest breeding ground of them all, and they made no survey of this.

Reports early in the year indicated action was necessary to protect waterfowl, but the surveyor agree reports were too pessimistic. But there is still reason for joint action on the part of Canada and the United States to protect water fowl.

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