In general soils are more acid in mid-summer than in early spring or late fall. As much as 0.5 pH unit difference may be observed in mid-summer when organic matter decomposition rates are high and soil moisture levels may be lower. Also fertilizer action at that time of year often assists in lowering pH levels.

**Excess Moisture.** The notation that wet areas and the presence of moss always indicate acid soil conditions is false although moss and wet spots are often associated with acid soils.

**Acidity and Alkalinity Effects on Soil Structure**

Soil is composed of a mineral fraction of sand, silt, and clay. Under acid soil conditions the silt and clay particles tend to exist as individual units. Under more alkaline soil conditions where calcium and magnesium are more plentiful the clay and silt particles group together to form granules. These granules provide improved soil structure which results in more favourable balances of air and water in the soil. It has been observed that where soils are acid and have poor structure, water penetration is very slow. Under these conditions the growth of fine turf becomes increasingly difficult.

The precise value of favourable conditions for improved soil structure under a turf which is subjected to active play is uncertain. Use of a turfgrass stand makes it virtually impossible to maintain good soil structures, for resulting compaction is a constant threat to granulation and aggregation processes. It is recognised; however, that aeration, wetting and drying, freezing and thawing of soil are less likely to have beneficial effects on soil structure under acid conditions than where lime has been used properly.

**The Effect of Fertilizers on Soil pH**

Such nitrogen sources as ammonium sulfate, ammonium nitrate, diammonium phosphate and Ammo-Phos are commonly used as fertilizers for turf. These materials have an effect on soil pH. In the soil the ammonia of these compounds oxidizes to nitric acid. Also, where the ammonium compound is accompanied by a sulfate there is a certain amount of sulfuric acid formed. Sulfuric and nitric acids are strong mineral acids which have a cumulative effect in exhausting the lime content of a soil. These acids react with the lime to form gypsum (calcium nitrate). Both of these materials may be leached from the soil and lost to plants.

About 100 lb. of ammonium sulfate will develop sufficient acid to neutralize 150 lb. of calcium carbonate (ground limestone). About 100 lb. of ammonium nitrate would require 125 lb. of ground limestone and about 100 lb. of diammonium phosphate would require 185 lb. of ground limestone to neutralize the acid effect.

Urea also has a slight acid reaction in soils.

Cyanamid, sodium nitrate and calcium nitrate are alkaline reacting and will tend to increase soil pH levels over a period of time.

Organic fertilizers have little effect on the pH of most soils. Superphosphate may eventually make soils slightly less acid. Muriate and sulfate of potash tend to make soils slightly more acid at first and then later reverse this trend and make them less acid. The overall effect of superphosphate and potash on soil pH is limited.

**The Effect of Soil pH on Nutrient Availability**

**Nitrogen**

Nitrate nitrogen does not change much in availability over the normal pH range for plant growth. Organic forms of nitrogen, however, must be converted to simpler inorganic forms before they can be absorbed by plants. This process is carried out by microorganisms in the soil and consequently is affected by the pH of the soil environment. It would be expected that nitrate formation from such fertilizers as processed tankage, activated sewage sludge and ureaform or from soil organic residues would be reduced at pH levels below 5.5. From 5.5 to about 8.0 microbiological activity is favourable for breakdown of organic matter and nitrogen availability is about the same throughout this pH range. Above pH 8.0 an over-supply of lime, may reduce
the rate of organic matter decomposition and cause nitrogen to become less available for plant growth. Under conditions in the cool humid regions of the country excessive amounts of lime are seldom found.

As far as most plants are concerned, nitrates are more readily absorbed under extremely acid conditions than is ammonia nitrogen. Under acid conditions the abundance of plus charged hydrogen ions causes the root membranes to be predominantly electro-positive and thus the electronegative nitrate is attracted to the root surface and absorbed. Under these conditions plants often fail to respond to applications of ammonium nitrogen. Under extremely alkaline conditions ammonia nitrogen is absorbed more readily than nitrate. In this case an abundance of negative charged hydroxyl ions causes the root membranes to be predominantly electronegative and thus the electropositive ammonium ions are attracted to the root surface and absorbed.

**OM — Organic matter content.

Table 2.
Suggested Lime Application to Adjust Soils to Various pH Levels
Based on Use of Limestone, Broadcast and Worked into Soil to Plow
Depth. Tons per acre.

<table>
<thead>
<tr>
<th>Soil Group 1</th>
<th>Soil Group 2</th>
<th>Soil Group 3</th>
<th>Soil Group 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sandy Soils</td>
<td>Loamy Soils</td>
<td>Sandy Soils</td>
<td>Loamy Soils</td>
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<tr>
<td>Low OM**</td>
<td>Low OM**</td>
<td>Med. OM**</td>
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<tr>
<td>Desired pH 6.6</td>
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<tr>
<td>6.0</td>
<td>0.4</td>
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Desired pH 6.0

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<thead>
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<th>Sandy Soils High OM**</th>
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<tr>
<td>Low OM**</td>
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<td>Desired pH 5.4</td>
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<td>6.0</td>
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Desired pH 5.4

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*Based on pH in early spring or late fall. For summer tests, add 0.5 pH for Soil Group 1 — to pH as tested before using table.

0.4 pH for Soil Group 2
0.3 pH for Soil Group 3
0.2 pH for Soil Group 4
OBITUARY

Mr C. A. TYDEMAN

We have learnt with deep regret of the death of Mr C. A. Tydeman, a former Hon. Treasurer of the Association and a stalwart member of the Southern Section.

He started his career on the Fulvell Golf Course, moving later to The Old Acton Golf Club where he was under Head Greenkeeper, G. Fennell.

The Acton Club moved to Sudbury in 1920 and a year later "Tidy" was promoted to the senior post on the ground staff. He was Head Greenkeeper until he retired, affirming that he could not have wished for better treatment. Much of this must have been due to the man himself, for his retirement was marked by both a pension and the freedom of the club.

He was a member of the Association for so many years that he included service on the Southern Section Committee, was twice Chairman of that Section, as well as Hon. Treasurer of the Association. He will be sorely missed.

Mr G. A. JONES

G. A. Jones, Head Greenkeeper of Little Aston Golf Club, died on 26th May at the early age of 66. His loss has deeply affected the members of the Midland Section and the members of his club who held him in the highest esteem. He was a man who made of greenkeeping both his life's work and his pleasure. His personal qualities won him wide respect — his skills an equal admiration.

He was born in Four Oaks not far from Little Aston in 1899 and at the age of 14 started work as an assistant gardener. When 18, he joined the Worcestershire Regiment and saw service with the Army of Occupation in Germany. In 1919 when demobilised, he joined the ground staff at the club where he stayed for the rest of his life. He became Head Greenkeeper in 1959 on the death of his brother Ernest.

He prepared his course for two Dunlop "Masters", a Schweppes Tournament and the last "Martini". He was cutting new holes right up to the Friday night before the last day's play, four days before his death.

"Bert" Jones' brother Cecil still works on the course with 47 years' service to the club. The Association will join in sending him every sympathy and to his niece with whom Bert, a bachelor all his life, made his home. Mr J. F. Cooke, writes "I say as Chairman of the Green Committee that Bert was a perfectionist and one who was easy to work with. He will be sadly missed by all at Little Aston."

Alan Boraston who joined the staff in 1953 has been appointed Head Greenkeeper to carry on the great greenkeeping tradition at this club.
HON. SECRETARY'S NOTES

WHITLEY BAY

NOTICE IS HEREBY GIVEN that the Forty-eighth Annual General Meeting of the British Golf Greenkeepers' Association will be held at the Whitley Bay Golf Club, Whitley Bay, on Monday, 9th August 1965, at 2.30 p.m.

Notice of Resolutions must be sent in writing to the Honorary Secretary Twenty-one days before the date of the Meeting. Under Rule 29, Proxies may be voted at all General Meetings. A Form of Proxy may be obtained from the Honorary Secretary and returned not later than the first post on Wednesday, 4th August.

The Annual Tournament

The Forty-eighth Annual Golf Tournament will be held at the Whitley Bay Golf Club, Whitley Bay, on Monday, Tuesday and Wednesday, 9th, 10th, and 11th August 1965. Entry Forms were enclosed with the June issue of the Journal.

Programme

Monday, 9th August
Morning. 18 Holes Stableford.
Afternoon. Annual General Meeting.
2.30 p.m.

Tuesday, 10th August
36 Holes Medal.
News of the World Cup. (Scratch.)
Senior Division (Plus to 11).
Junior Division (12 to 24).
The Artisan Medal.
The Jubilee Cup. (Team Prize off Handicap.)
The Coming of Age Cup.

Wednesday, 11th August
Morning. 18 Holes Medal.
Afternoon. Prize Distribution at 3 p.m.

Handicaps

Section Secretaries will be asked to verify the Handicaps of all competitors from their records before the Tournament. All Handicaps and revisions must be based on the National Golf Unions handicapping system.

A Meeting of the Executive Committee will be held at the Whitley Bay Golf Club, Whitley Bay, on Sunday, 8th August 1965, at approximately 5 p.m.

May I remind holders of Trophies from last year's Tournament who are not taking part this year, to ensure that these are returned to the Whitley Bay Golf Club, Whitley Bay, before Saturday, 7th August.

Annual Draw

May I remind members that all counterfoils and moneys should be returned to their Section Secretary and not to me.

The following propositions have been received from the North West Section for consideration at the Annual General Meeting.

1. That, in the interest of this Association, its unity and professional status, we seek affiliation to a recognised trade union organisation (i.e., The Transport and General Workers).

2. That the sponsors of P.G.A. and other national tournaments be approached to support our prize lists, any support given to be shared equally between Headquarters National Tournament and the Sections.

3. That the title of Golf Course Superintendent be designated to the man in charge of the course (i.e. as at present Head Greenkeeper).

C. H. Dix.
Hallowes G.C. Meeting

OUR FIRST GOLFING EVENT TOOK place at the Hallowes Golf Club on Tuesday, the 1st June. This event is organised by the Sheffield Union of Golf Clubs for its greenkeepers and arranged so that each greenkeeper is partnered by an officer or a member of a golf club.

More than 50 people teed off on the warmest day for some time in these parts. The course was in marvellous condition and a great credit to Jack Baxby and his very young staff. This was the general opinion and suitable congratulations were extended.

The outright winner by a large margin was Des Thomson, the ex-Sheffield United goalkeeper, with a score of 5 up on Bogey.

Des is a newcomer to the greenkeeping ranks and not yet a member of our Association. He hopes to put this in order in the very near future.

There were 4 players on a score of 2 up and they shared the remainder of the prize money—B. Crookes, H. Tanfield, A. Spencer and J. Waddoup.

Appropriate thanks were voiced after an excellent meal, but I think a special thank you is warranted for the hard work of Mr Wilkinson, the S.U.G.C. secretary, and to Mr Eborall, an union executive, for his timely help, also to the many golf club officials for their most welcome support.

Annual Match

The Annual Tournament of this section will be held at the Hallamshire G.C. on Tuesday, the 27th July. The tournament is of two rounds stroke play and will commence at about 9.30 a.m.

Any member wishing to play in this event and not having a handicap should let me have three cards of recent rounds played.
Tournament Prize Fund
I have pleasure in acknowledging donations from Messrs Pressure Jet Markers and Sisis Ltd., to our Tournament Prize Fund.

NORTH-WEST
By H. M. Walsh
Chairman:
D. PATE
(Royal Birkdale G.C.)
Hon. Secretary:
78 Hadfield Street,
Oldham, Lancs.

New Appointment
IT IS WITH REGRET I HAVE TO inform members of the Section that V. Crabtree has had to give up the position of Hon. Secretary, owing to his taking up an appointment as greenkeeper-pro at Dereham Golf Club, Norfolk. On your behalf I would like to wish him every success in his new club and at the same time hope for myself a measure of success as your Hon. Secretary.

Subscriptions
I would like to remind members that subscriptions are now due and should be forwarded to the Hon. Treasurer as soon as possible.

Annual Draw
All counterfoils, moneys and unsold tickets for draw to be returned to me not later than 26th July.

Open
If any member wishing to go to the Open Championship at Royal Birkdale contacts Mr Dix, B.G.G.A. Hon. Secretary, at Headquarters he will try to obtain the necessary tickets for them.

SOUTHERN
By W. Mason
Chairman:
W. E. Moore
18 Albert Road, Hendon, N.W.4
(Romford)
Hon Secretary:
Tel.: SUNnyhill 0245

AT OUR ANNUAL GENERAL MEETING on the 9th June the chair was taken by our Vice-President, D. M. Craig, in the absence of our President, Mr Wallis Arthur. Before the Minutes of the last meeting were read, Mr Craig asked that we should stand in silence for one minute as a mark of respect for two of our Section members who have passed away. They were H. C. Neale of Pinner Hill Golf Club and T. Chamberlain of Highgate Golf Club.

The Minutes were then read by the Secretary, proposed by C. A. Moore, seconded by D. Kirkpatrick and passed. All present had a copy of the balance sheet which was proposed by E. Folkes, seconded by S. Morton, and passed. G. Rennie proposed and W. E. Moore seconded that Mr Wallis Arthur be re-elected for President. This was carried. A new Vice-President was proposed by W. E. Moore, seconded by G. K. Glass and carried. His name is C. A. Diebel of "Waverley", Heath Close, Gidea Park, Romford. All other Vice-Presidents were re-elected en bloc. The re-election as Chairman of W. E. Moore was proposed by G. K. Glass seconded by F. Dulake and carried. Mr Glass was re-elected Vice-Chairman on the proposal of G. Kirkpatrick, seconded by G. Rennie. Mr Dulake proposed and C. A. Moore seconded that W. Mason be re-elected Secretary and Treasurer, which was carried. F. Ford was re-elected Assistant Secretary, proposed by H. C. Dixon and seconded by J. Kirkpatrick. The member of the Executive Committee, E. Folkes, was re-elected on the proposal of Mr Noakes, seconded by Mr Dulake. There being no other nominations for the Committee, they were re-elected en bloc.

The meeting decided that the Spring Tournament should be 27 holes, 18 in the morning and 9 in the afternoon. It was also decided that in future all meetings held previous to lectures would commence earlier, so that the lecture could start at the time announced in the Journal.

W. E. Moore told the meeting that the Section had been invited by the North Middlesex Golf Club to hold their dinner there and suggested that those who would like a round of golf before would be welcome to do so.

A hearty vote of thanks was given to Mr Craig and the meeting closed.

There are still quite a few members who have not sent in their subscriptions despite my appeal in the May Journal.

We welcome to the Section two new members: A. Curtis, 27 Kings Way, Lyme

GOLF COURSE EQUIPMENT

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- Tablets
- Mowers
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- Hose
- Sprinklers
- Mole Ploughs
- Rotary Sifters
- Aerating Machines
- and all Greenkeeping Tools
When I returned from holiday the first letter I opened was from Mr Cooke, Chairman of Greens at Little Aston, to inform me that Bert Jones, the Head Greenkeeper, had passed away on 26th May. It was a shock to me personally as we were school pals and until two years ago he was my next door neighbour. We were also the same age to the day. I regretted very much that I was away on holiday and unable to pay my last respects and at the same time represent the Association. I have written to his niece with whom he lived, expressing our deepest sympathy. The Little Aston Golf Club was fully represented, both by Ladies and Men, which shows the respect and appreciation in which Bert was held. His experience will be sadly missed.

Our Annual Summer Meeting was held on 1st June at Southerdown Golf Club by kind permission of the Captain and Committee. Many thanks to them for their kindness in more ways than one and to the inside and outside staff for the pleasant day in lovely weather. We were without our Chairman Mr M. Geddes who unfortunately had to go to hospital for observation. We all wish him well and a speedy recovery, we had our usual 18 holes of golf before the Annual General Meeting, the course being in very good shape and the lovely weather made things very pleasant to all. Our attendance was about 75 per cent and there were some very good golf scores returned. In the absence of our Chairman and President, Mr Southgate, one of our V.P.'s of Ransomes, Sims and Jeffries took the chair and we owe him many thanks for his help to the section.

The following were the prize winners:—
Mr John Duncan Cup with Ransomes Tankard was won by B. Oliver on last nine holes with a net 71; 1st Prize, John O’Gorman Cup and Canteen Cutlery, Senior division scratch to 18 handicap, was won by A. Price with 71 net; 2nd (Windcheater) D. Jones, 71 net; 3rd (Two pairs of socks) D. Lord, 76 net; 2nd, division 19 to 24 handicap: 1st (Birdie Cup and Ronson lighter given by Messrs Pattison) A. Sharpies, 72 net; 2nd (Clock) T. Finch, 73 net; 3rd (Silver Pencil given by May & Baker) H. Fry, Snr.; Highest gross score (Ash Tray) D. Kenealy.

Annual General Meeting
As mentioned, Mr Southgate took the chair for us in the absence of our President and Mr Geddes our Chairman. We had a very successful meeting, Mr Ivor G. Nicholls was re-elected our President and we all thank him for his help and guidance in the past year. Our Chairman and Treasurer Mr Geddes was also re-elected and yours truly S. A. Tucker as Secretary. I would like to thank all the Trades People and Clubs for their help in making our meetings so success-
ful, my Chairman and Committee for the
great interest they always show and last
but not least all the members for their co-
operation in correspondence etc. It makes
our work so much easier with everyone doing
his bit (many hands make light work).

After the Annual General Meeting had
closed our Vice-Chairman, Mr D. G. Lord,
and I were called into the Secretaries Meet-
ing to discuss a wages scale for all the Head
Greenkeepers and their staff. It was a most
pleasant talk and Mr Lord and myself think
that a lot will be done about it, to the
benefit of all concerned.

Annual Draw
By the time you read these notes I hope
you will have sold all the tickets I sent you.
Please make the effort as it is a great
advantage to the association and section. All
unsold tickets, counterfoils and money should
be returned to me not later than 3rd August,
so that I can have a little time in getting
them off to Headquarters in time for the
draw. Please send earlier if possible. I
have a few books left if required.

Annual General Meeting — P.S.
All members stood for a minute's silence
for absent friends, Mr John O’Gorman, Mr
E. G. Sharrett, also one of our V.P.s, Mr
D. H. Rees, I am pleased to say that Mr
Rees' son E. L. Rees has kindly consented
to carry on his father’s name. We were
all sorry to hear about our good member
Mr T. E. Lloyd’s loss in the passing of his
wife, we wish him all the best of luck for
the future.

Self-Portrait
My brain says to my body:
“Now, take it easy, son,
Self-confidence is all you need
To make a hole in one.
You’re as good as any pro, boy
Just take your time — you’ll see,
Come on now: you can do it” —
And my body says: “Who? Me?”
— STEPHEN SCHLITZER.

NORTH-EAST

Chairman: J. SIMPSON
Hon. Secretary: J. SIMPSON
(Ponteland G.C.)
Arcot Hall Cottage
Dudley
Newcastle-on-Tyne, 3

Spring Competition
OUR SPRING COMPETITION WAS
played on Thursday, 6th May, on the course
of Whitburn Golf Club. Results — the
President’s Putter was won by D. Gray,
Newcastle United Golf Club — 66; 2nd, D.
Hogg — 70; 3rd, R. Derham — 73. Con-
gratulations to D. Gray who also broke the
record of the course.

Our President, Mr L. A. Jones, presented
the Putter and congratulated Mr Gray on
winning it for the second time.

Other prizes were presented by Mr G.
B. Thomson, Captain of the Whitburn Golf
Club, who said how pleased he was to
welcome members of the Greenkeepers
Association, and would be pleased to have
us back again.

Our Chairman, Mr J. Simpson, thanked
the Committee of Whitburn Golf Club for
allowing us the use of the course, and Mr
Robb and Mr R. Nicholson for kindly
donating prizes. He also thanked the
Steward and Stewardess for a very enjoyable
meal.

He also congratulated R. Robb, Head
Greenkeeper, on the fine condition of the
course, this was heartily endorsed by all.

Again our thanks to Mr Beveridge of
Ransomes, Sims & Jefferies Ltd., and Mr L.
Lowery for attending to the cards.

New Members
We welcome to the section the following
new members:—C. Harrison, D. Snowdon
and T. W. MacCue, we look forward to
them joining in our many activities.

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THE SCOTTISH GOLF GREENKEEPERS ASSOCIATION
Chairman: D. L. MACDIARMID
Royal Burgess Golfing Society
Barnton, Edinburgh, 4
General Secretary: R. B. MOFFATT
71 Kelton Street, Glasgow, E.2

S.G.G.A. WEST
Autumn Meeting
THE WEST SECTION OF THE Scottish Greenkeepers will hold their Autumn Meeting at Pollock on Thursday 7th October.

S.G.G.A. NORTH & MIDLAND
Annual Tournament
THE NORTH & MIDLAND SECTION Annual Golf Tournament for the George McLean Trophy was held at Craigie Hill, Perth, on 27th May.

A very enjoyable day was had by all in spite of the rain. We were delighted with the courtesy of the Craigie Hill Golf Club whose course was in excellent condition thanks to the efforts of Mr Hallyburton and staff.

The prizewinners were as follows:—

Subscriptions
Some members of the section have not yet paid their subs. I wish to remind them that they are now overdue.

SITUATIONS VACANT
MILL HILL GOLF CLUB require an Assistant Greenkeeper. Average earnings around £675, plus rent free flat and free light and heat. Apply to Secretary, 100 Barnet Way, London, N.W.7, giving full particulars of past experience.

WORKING GREENKEEPER WITH sound knowledge of course machinery and greenkeeping. Free cottage. Write (not telephone) Secretary, Mannings Heath Golf Club, Horsham, Sussex. Enclose references. State age, experience and wages required.

HEAD GREENKEEPER REQUIRED at Brookmans Park Golf Club. Temporary accommodation in Club House for single man until arrangements can be made. For a married man, the course is on the fringe of a residential area and the Club would consider a scheme to assist in the purchase of a suitable property. First class experience essential in general maintenance of a Golf Course. Apply to The Secretary, Brookmans Park Golf Club, Hatfield, Herts.

ASSISTANT GREENKEEPER REQUIRED. Up to £15 per week, according to experience. Apply Secretary, Hampstead Golf Club, Winnington Road, London, N.2.

EXPERIENCED FIRST ASSISTANT Greenkeeper required. House provided. Send details experience, etc., to Secretary, Leicestershire Golf Club, Gartree Road, Leicester.

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with Ann Mawson

As the soft fruit is still in season, I thought I would keep the recipes to make the most of them.

Cherries are a very attractive fruit that makes many delicious sweets.

Cherry Delight

$\frac{1}{2}$ lb. ripe cherries—2 oz. icing sugar—1 oz. chopped almonds—$\frac{1}{4}$ pint custard—2 tablespoonfuls of cream.

Stone the cherries and divide them among four small fruit dishes. Sprinkle them with the sugar and leave until required. Cover the cherries with the custard. Pile a little whipped cream on each and sprinkle with the chopped almonds. TO SERVE FOUR PEOPLE.

Cherry Cream Jelly

$\frac{1}{2}$ lb. ripe cherries—2 oz. granulated sugar—1 pint packet of cherry jelly—2 tablespoonfuls of water—$\frac{1}{4}$ pint cream.

Stalk and wash the cherries, stew them with 2 oz. granulated sugar and 2 tablespoonfuls of water; until they are quite soft. Drain off the syrup, remove the stones, and rub the fruit through a sieve. Dissolve the jelly in the hot syrup, adding enough boiling water to make $\frac{1}{4}$ pint. Leave until cold, then stir in the cherry pulp. Put in a cold place. Whip the cream and as soon as the jelly begins to set, stir in the cream and lightly mix together. Put the mixture into a wet mould and leave until set. Turn out carefully. It may be decorated with a little whipped cream and just a few glace cherries.

TO SERVE FOUR PEOPLE.

Cherry Cocktail

1 lb. ripe dessert cherries—12 sweet almonds—$\frac{1}{4}$ lb. raspberries—2 oz. icing sugar—a tablespoonful of lemon squash.

 Blanch the almonds and stone the cherries. Rub the raspberries through a hair sieve, mix the juice with the 2 oz. icing sugar and lemon squash. Stir it until the sugar has dissolved. Put a piece of almond in each cherry. Arrange the cherries in fruit glasses. Pour some raspberry syrup over and serve as cold as possible.

TO SERVE SIX PEOPLE.

—Until August—