Indications, Ecology, Turf Troubles.

1—Diary, daily work and treatments. See Records.

4—Diseases, See Blights, Diagnosis.

1-3—Distributors. See Agents, Dealers. Also Machines (list).

4—Divots. Golf term. See Patching, Plugging (method).

4—Dollar Patch, Dollar Spot. See Brown Patch, Diseases.

2-Drainage, Land.

4-6-Drought, See Wilt.

7—Dusts, chemical, see insecticides, fungicides.

5-9—Earth, Earthworms, See Entomology, Insects, Worms, Soil.4—Ecology, Plant, See Indicators, Indica-

4—Ecology, Plant, See Indicators, Indications, Diagnosis, Soils.

1—Electric, Electrical, Electricity, simple fundamentals, repairs.

5-7—Elements, See Soil, Fertilizers, Major, Minor, elements, Chemistry.

1-7—Emetics, poison, see Antidotes. 7—Emulsions, See Sprays, Solutions.

7—Emulsions, See Sprays, Solutions.
 9—Entomology, Study of Insects Subject.
 See Insects.

3—Equipment. Term applying to games and grounds furnishing. See Accessories. Ethics.

Evaluation, prices, quality.

4—Eye Spot, See Diseases, Zonate Eye Spot.

 Fairway-s term. Golf course fairways, areas.

Tortilia

4—Fertilizers, subject. Fertilizing. (Also see Methods.)

5—Field crops. See Cover Crops, Ground Cover Crops. "Green Manures." Legumes.

1—First Aid, to Injured. See Emetics, Antidotes, Safety Rules, Precautions.

1-4—Frost on grass, Frost Heave. See Winter seeding.

7-9—Fumigants, Fumigators, See Asphyxiants, Gasses, Poison Gasses.

1—Fundamentals, of study subjects. See "Why."

4—Fungi, Fungus diseases, See Blights, Diseases.

7—Fungicides, See Dusts, Sprays, Mercurials. See List, (Commercial).

9—Gasses, See Asphyxiants, Fumigants, Fumigators.

4—Germination, See Viability, Seeds, Grass Seeds.

1-Golf, The game of, requirements, etc.

4-Grasses.

4-Grass Seeds, See Seeds.

3-Greases, See Lubricants, Oils.

1—Greens, Golf, Bowling, See Bowling Greens, Lawn Bowling.

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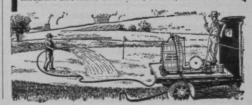
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7-8-4—Hormones, plant hormones.

3-6—Hose. See Irrigation, Supplies, Water hose, Garden Hose, List.

1—How to do things. See list of ME-THODS.

1-4—Humidity—see Weather.

3—Implements; See Tools, Special List, of, use - purpose.

2—Improvements, Improving, also see Methods list.

5-7—Indicators, Indications, See Soil Tests, Ecology, Diagnosis.

1—Information, Sources of, Books, etc. Also see Data, Tables.

1—Injury: To Persons, See First Aid.

4—Injury to Plants, Summer, Winter, Insect, Fungus, See Blights, Diseases, etc.

9—Insects. See Entomology, Bugs, Worms.7—Insecticides, See List, also Sprays, Dusts.

6—Irrigation Subject, See Sprinkling, Watering, and Methods.

—Irrigation, Supplies, Sprinklers, Hose, Pumps. See Lists.

2-5—Irrigation, Sub-Surface. Also see special devices for this, and Methods.

9—Japanese Beetles, See Entomology, Insects, Grubs, Beetles.

1-Job operations.

9—June Beetles, See Entomology, Insects, Grubs, Beetles.

7—K., K 2 o, See Chemistry, Fertilizers, Potassium (Kalin).

1—Labor, See Methods. Hiring, Employment, Management, Training, Costs.

1—Landscape study.

1-2-4—Lawns. Also see Shaded, Shady Lawns.

1-2—Lawn Tennis, Game, See Tennis Courts, grass, clay, composition.

5—Legumes, See Cover Crops, "Green Manures," Field Crops.

5-7—Lesser Elements, See Minor Elements,
 Chemistry, Fertilizers, Soils.
 5-7-9—Lime, See Calcium, Alkalies, Bases,

Base Exchange, Fertilizers, Nutrients.
3—Lubricants, Lubrication, see Oils,

Greases, and Lubricating METHODS.

3—Machinery, Machines. See List, any device that has mechanical moving parts, hand, engine powered, tractor drawn.

1—Maintenance, See Grounds Maintenance, Upkeep, General.

5-7—Major Elements, See Soils, Chemistry, Fertilizers, Elements.

 Management, Turf, Grounds, Labor, Acreage.

Manufacturers. See Lists, names, addresses, Lines produced, Accessories, Equipment, Machinery, Tools, sundries, supplies, etc.

5-7—Materials, special purpose, not otherwise classified. See Lists.

7—Mercurials, See Fungicides, dusts, sprays.

 Methods, Special List, See How to do things. Words mostly end with "ING."
 5-7—Minor Elements, See Lesser Elements,

Soils, Chemistry, Fertilizers.

1—Miscellaneous, Special, not otherwise

classified, subjects.
4-5-7—Mixtures, of chemicals, seed, fertil-

izers, composts.
5-6—Moisture, See Soils, Drainage, Drouth,
Drought, Humidity, Irrigation, Rain-

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fall, Weather, Watering, Sprinkling, Wilt.

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- 5—Moss, Peat, See Peat Moss (baled), Sphagnum Moss, Soil Conditioners, Mulches.
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- 5-7-Organic-s, Organic Matter, Organic Materials, See Fertilizers, Soils, Mulches, Composts, Conditioners.
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- 7-P2 05, See Fertilizers, Phosphorous, Chemistry.
- 7-Plant Food-s, See Fertilizers, Nutrients. 7-8-Plant Killers, See Herbicides, Weed
- Killers. 4-7-8-9-Plant Sprays, See Sprays, Insecti-
- cides, Fungicides, Oils, Emulsions. 7-8-9—Poisons, See Animal Poisons, Poison Baits, Insecticides, Animal Pests.
- 7-9-Poison gasses, See Asphyxiants, Gasses, Animal Pests.
- 1-Polo Game, Polo Fields.

7-Potash, Potassium, See K; K2O, Fertilizers, Soils, Chemistry

Practice greens, fields, Driving ranges. 1-Prices, See Buying, Purchases-ing,

Evaluating, Values. 1-7-Precautions, See Safety Rules, Safety

Measures. 4-Propogation-ing. See Stolonizing.

Vegetating-ion. 1-7-Proportions, See Mixtures, Ratios,

Rates. 1-Purchases-ing, See Buying, Prices, Values, Marketing.

1-4-Purity, Purities, See Seeds, Impurities, Minor, -Elements.

1-Putting Greens.

4-Pytheum, See Blights, Diseases.

1-Quality, See values, evaluation, buying, purchasing, marketing.

1-4-5-7—Quantity, See Rates, Amounts, Ratios.

6-Rain, Rainfall, See Weather, Irrigation, Moisture.

5-7-Rare Elements, See Minor Elements, Fertilizers, Nutrients, Soils, Chemis-

1-4-5-7—Rates, Ratios, See Proportions, Mixtures, Amounts, Requirements.

1—Records, See Weather, Labor, Costs, Treatments, Diary, Timekeeping.

1-3-4-Repairs, Buildings, Machine Overhaul, Troubleshooting, Turf Revamping, Renovation.

7-9-Repellents, Animal Pests, Insects, Insecticides.

Reports, See Records, Report Making, Presenting.

4-Rhyzome-s.

1-Roads, See Grounds, Paths, Parking Spaces, Parking Areas, Drives-ways.

1-4-5-Rolling, (see Methods), Compaction, Frost Heave.

4-Roots.

4-Root Stock-s.

1-4-Rough, Golf, see Areas.

1—Routine-s.

1-7-Safety Rules, Precautions in Work,

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4—Seeding, see Methods list.

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-Shrubs, See Grounds, Pruning, etc.

4—Small Brown Patch, Diseases, See Dollar Spot.

4—Snow mold, See Diseases, Winter kill, Winter injury.

4—Sod, See Turf, Sod Nurseries, See Turf Nurseries, Sodding Methods.

9—Sod Web Worm, See Insects, Grubs, Entomology.

5—Soils, Subject of Special, Fundamental study.

5-7—Soil Tests, See Indications, Indicators, Fertilizers, Soils, Diagnosis.

7—Solutions, See Sprays, Emulsions, Nutrients.

5—Sphagnum Moss, See Peats, Peat Moss,

Mulches, Soil Conditioners.

1-4-5—Spike-ed, ing, Spike Discing, Spike Rolling. See Aeration, Renovating, Cultivating, ion, Renovation, Compaction, Tilth.

7—Sprays, See Solutions, Emulsions, Insecticides, Fungicides.

1-Spring Work, See Rolling.

1—Standards, of Maintenance, See Routine.

1-4-5-8-9—Steamed, ing, Soil, See Steriliz-ed, ing, Composts, Weeds, Insects.

4—Stolons, Stolonizing, See Propogationing, vegetating-ive, Grasses.

1—Study Subjects, Study Methods, See Subjects.

1—Subjects, (see above)—of Study and Discussion.

5-Subsoil.

4—Summer, Injury to turf, see Injuries.

1-2—Survey-s, ing. See Data, Tables, Charts, Areas, Maps-ing, Land, Diagnosis, Layouts, Drainage, Irrigation, Construction, Grounds.

1—Systems, See Methods, Water-Irrigation.

1—Table-s, See Survey-ing,-s, Data, Charts, Information Tables.

1-Tee-s, See Areas, Golf.

1—Temperature, See Weather, Germination, Diseases.

1—Tennis, Tennis Courts, Game, Areas, Lawn Tennis.

1—Terms, Special category of names, expressions, also see Buying, etc.

2-4-5—Terrace-s, See Grading, Slope, Shoulder, Bank-s.

2-5—Tile, Land. See Drainage, Tiling.
3—Tools, See list, Implements, Hand Tools, Grounds, Garden, Shop.

5-Top Soil.

5-4—Top Dress-ing-s, See Composts, Conditioners, Mulches, Soils.

5-7-8-9—Toxic, Toxicants, Toxicity, See Soils, Poisons.

1—Transplanting, see Patching, Plugging, Sodding, Stolonizing, also Method, Flowers, Trees, Shrubs, Plants.

1—Traps, Golf, See Sand Traps, Bunkers, Animal Traps, Pests, Insects, Trap-

Trees.

4—Turf, See Sod, Grass, Turf Nurseries.

4—Underground Rootstocks, See Grass.

Upkeep, See Maintenance, Care.
 Values, See Evaluation, Prices, Purchase, Buying, Quality.

3-Valves.

4-Viability, See Germination.

4—Vitality, See Viability, Health of Plants.

6—Water, -ed, -ing, See Irrigation, Sprinkling, Moisture.

5-6—Water-holding Capacity, See Soils.

6—Weather, See Rainfall, Temperature, Drouth, Summer, -Winter, Injury, "Seasonal," Wind-s, Forecasting, Humidity, Cloudiness.

8—Weeds, plants, seeds.

7-8—Weed Killers, -ing, see Herbicides.

Weights, soil, seed, data, tables, buying.
 "Why"—Reason-s, diagnosis, fundamentals, causes.

4—Wilt, See drought, drouth, summer injury, Irrigation, Drainage.

4-Winter Kill, Winter Injury, Weather, Snow Mold.

1-4—Winter protection-s, see Mulches, wind breaks, plant, shrub covers.

1-2-3—Winter Work, indoors, outdoors, See Seasonal.

4—Zonate Eye Spot, See Eye Spot, Diseases.

## DENVER'S 6-YEAR PLAN

(Continued from page 38)

tan tourney. Eight players will win annual tickets for two years duration, at association expense to play the municipal courses. In this two-year period, they also will get monthly private lessons from a professional, also at the expense of the golf association. This would normally conclude the training unless some individual gave such promise the group should desire to single him or her out for further training.

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"The operation of this entire program will hinge on the financial success of the first Denver Open, according to Dawson.

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		Weed Chemicals
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## BACKGROUND OF CHAMPIONSHIPS

(Continued from page 25)

at Plum Hollow when the lag was reduced.

At St. Louis again was shown the need of thin strips of tape or some other means of underlining or otherwise making easier the locating of scores of leaders.

### Club Regulation Enforcement

Inspection of clubfaces to see that they were in accord with USGA rulings provided some excitement at St. Louis. The players had to alter or discard some clubs at St. Louis. The inspection by the USGA at St. Louis was done by precision instruments which is the only way it can be properly done.

The club inspection was but one of numerous matters pointing to the logic of having one set of rules and standards for championship play and such rules and standards being established by an impartial and judicial authority.

It is obvious that the National Open is a far more rigid test of rules of golf observance than the PGA championship although Open qualifying rounds were featured by conflicting rulings on lifting and cleaning a ball on the green. Adverse weather, turn and maintenance conditions on PGA tournament circuit courses have accounted for general procedure contrary to the codified rules of golf. There were observed in both championships violations that wouldn't have been condoned by the rules-wise women playing in a Class B championship at a cow-pasture course.

### Rules Are Disregarded

One rule flagrantly disregarded in both tournaments is Rule 18 (3) Touching Line of Putt. "The line of the putt may not be touched, except by placing the club immediately in front of the ball in the act of addressing it and as above authorized. It is not permissible to touch the ground behind the hole in order to point out the line of the putt." The "as above authorized" reference is to the paragraph of Rule 18 (2) which says:

"In moving any loose impediment with the club it must not be laid with more than its own weight upon the ground, nor may anything be pressed down either with the club or in any other way."

And that paragraph of the rule, too, was frequently violated.

It's easy to understand why pressure of the tournament players upon the PGA would result in easing the conditions of course severity and rules laxity. The tournament players are in a tough enough business without wanting to subject their nerves, skill or financial prospects to any avoidable risk. They forced out the stymie although that shot is one that a player with a golf champion's finesse ought to be able to play in demonstrating a spectacular command of a traditionally basic feature of match play.

The result of stymie elimination was to make the PGA championship less of a test of delicate golf technique and virtually a medal play event on a hole by hole basis instead of true match play. Even at that, the PGA finals certainly supplied more see-saw drama than the National Open 72d and 90th holes where the crises came as Snead holed a 20-footer to go into a tie with Worsham and missed a difficult 30½-incher to lose in the play-off.

The much-discussed measuring incident which determined Worsham to be an inch nearer the hole might not have occurred if Snead had proceeded under Rule 6 (2), part of which reads: "If by mistake a competitor play out of turn no penalty shall be incurred and the stroke cannot be recalled."

There is a possibility that the tournament pros would find that knowledge and observance of the rules commensurate with their authoritative status as shotmakers would ease instead of adding to the strain on them.

#### **Tournament Strain Shows**

The tournament schedule certainly takes a lot out of the players. Locke showed that by being a very weary fellow after missing a few makeable putts in the last round at St. Louis to lose his title chance through faulty performance in the department where he usually is superb.

When Hogan, Locke and Snead were knocked out in 18-hole rounds at Plum Hollow there was some expressed belief that absence of these three super-stars would reduce the gallery and that the 18 hole rounds should be abandoned because they are unfair and too risky for the name players who draw the big gates. But the absence of the three headliners apparently didn't have any costly effect on the gate. There are some who maintained that if fear

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Golf Professional wants position with a good golf club. Good business man, excellent instructor, pable of assuming full charge of the golf course, university graduate, member of the PGA, married, 37 years of age, excellent references. Address Ad 708, c/o Golfdom.

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Golf Balls: Due to uncertain conditions in cut and cull market we are not buying at present. However we will rebuild for you at \$2.20 per dozen, 6-day service, 10% off for shrinkage and core loss. This ball has 50% new cover added, two coats of paint and stamped driving range; plain if desired. Send only 50 dozen as trial if requested. Prices FOB. We have Grade A used mixed brands from course play driving range balls at \$3.00 per dozen; quantity less. Northern Golf Ball Co., 3441 N. Claremont Ave., Chicago 18, Ill.

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### PERSONAL

GOING TO TRAVEL? SEND FOR OUR TRAVEL expense information booklet. Interesting. 15c coin. American Tourist, 506 N. Oakland, Indianapolis, Indiana.

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Expert Club Repair Service. Clubs refinished, rebuilt. Quick service on all types of repair work. Write for price list. E. L. Wilson, Twin Oaks, Route 1, Box 31, Batavia, Illinois.

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Pro or Pro-Greenkeeper, 45 years of age, single, 20 years' experience wants position in east or middle west. Address Ad 714, c/o Golfdom.

Reprocessed Driving Range Balls @ \$3.25 per dozen. Address National Specialties, 5110 W. Washington St., Indianapolis, Ind.

Greenkeeper—36, wishes to change jobs. 15 years a greenkeeper; some construction experience. J. R. Walton, 611 Morning St., Worthington, Ohio. Phone Columbus Fr 2-6856.

Golf Professional located at one of the East's most exclusive clubs desires to get connected with club for the winter. Available Dec. 1 to April 1. Address Ad 711, c/o Golfdom.

GOLFER'S RECORD BOOK - A pocketsized scorebook for the season's scores on all courses. Ideal for establishing handicap. Lists 1946 champions and major rules. Quantity lots available for clubs or for advertising purposes. Rights also offered for sale.

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Club Manager—Specialized in high-class catering and with splendid record, desires to make change. Address Ad 715 c/o Golfdom.

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Golf Balls—used. We will buy any quantity and pay shipping charges. Write for prices. Arrow Distri-butors, 2318 Pitkin Avenue, Brooklyn, N. Y.

What's YOUR course maintenance problem? Qualified advice by national authority. Enclose \$5 check for service fee. The answer, or information source, or refund. Write: SPECIAL SERVICE, Box 458, Mountain View, N. J.

## FOR SALE WOODRIDGE GOLF & C. C.

254 acres, 27 holes, rolling, wooded with river running through property. Very scenic, located 26 miles from Chicago loop on state route 53 -2 miles south of route 34, Ogden Ave., at Lisle, Ill., on C. B. & Q. R. R. Highly improved clubhouse, all modern, 90' x 64', 2 stories. Lockerhouse 70' x 30', 2 stories, coffee shop and office, 42' x 42' with English basement and other buildings, all with cement floors. Gas hot water heat. Has not been operated for 2 years but is in good condition and can be put back in shape for play quickly at small cost. Improvements cost over \$200,000. Will carry back part of purchase price. For further information write E. E. Bain, Lisle, Ill., or phone: Downers Grove 8193-M2.

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of losing headliners early in the competition is to be a major element in determining the plan of the PGA championship why not simply give the stars a pass through the perilous stage instead of having them play in a tough championship.

The shot-making demonstrations prior to the championships gave the clubs really something to sell to the public that paid to witness practice rounds. That PGA feature is a great addition to the tournament shows.

It could be extended by a tie-up of illustrated lessons in the tournament programs. The program advertising isn't what it used to be when the corporation tax situation favored loose use of the 10 cent dollar.

The Michigan PGA took colored talking motion pictures of star shot-makers at Plum Hollow and before long will announce terms under which prints of the film may be secured.

Clubhouse operation at St. Louis CC and Plum Hollow was remarkably swift and smooth as far as the public was concerned although the managers at both clubs were operating under severe handicaps. The St. Louis clubhouse is large and sprawled out. The Plum Hollow clubhouse is small and not laid out to care for heavy rush patronage. But in both cases the emergency was

met so players, members, guests and the press were served better than could have been imagined in advance by anyone who knew the problems involved.

Whoever thought of getting Johnny Manion on lend-lease from his club to officiate in the lockerroom at St. Louis deserves commendation for an innovation that should be made standard practice at major tournaments. Manion, a tournament veteran himself and widely acquainted with player, official and press personnel, had all the answers.

A tournament seldom is much of a break for the pro of the host club. It too often means that he is practically out of business during the days of the tournament. There have been some exceptions, notably in 1930 during the Jones finale at Merion when the very canny George Sayers sold a record number of the then new sand-wedges. At Plum Hollow Sam Byrd's pro shop did big business in golf shoes, sox and hats with the gallery. The Hagen company had a display of playing equipment and apparel in a tent that also did very well.

The pro shop can be an addition to public service at a National Open and Alex Ayton at St. Louis had made tentative plans for taking care of this feature but the plans did not receive official approval.