

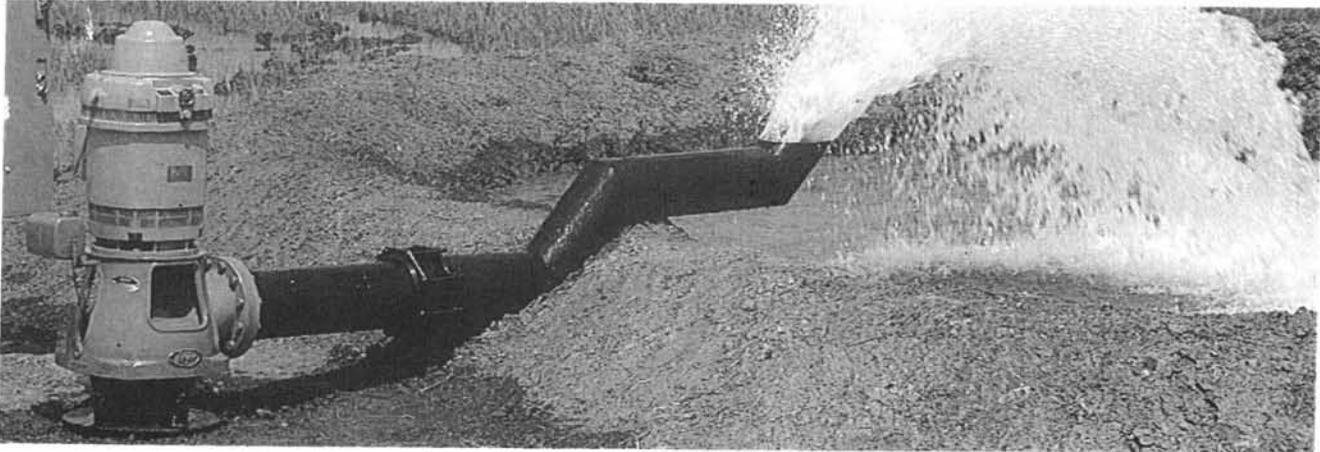
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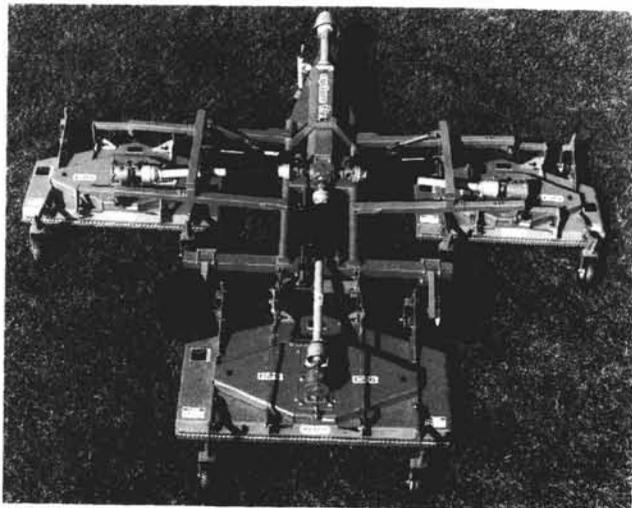
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(Drainage continued)

A neighbouring field, presently in agricultural crops, slopes to a swail, which feeds onto the golf course, crossing two fairways before reaching the creek which winds through the course. It was hoped that the swail would provide a natural hazard, however, several times this season serious erosion has occurred to a point where the swail is now two meters deep & seven meters across. A topographic map of the area is used to determine that 60m across from the neighbouring field surface drains into the swail. It is evident from the material washed out of the swail that the soil is sandy in texture. An erosion control structure must be built which includes a beam to contain the surface runoff and a surface inlet. In addition to the conduit, an emergency overflow must be constructed to allow for occasional flash floods, a more common occurrence of late. Capacity of the holding area and sizing of the conduit pipe are dependent on several site variables and should be referred to a qualified consultant for their design.

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Fig. 2. Laser Transmitter with grade control for use on equipment with automatic laser control.

Envelopes are designed to restrict the entry of granular soils that may cause sedimentation within the tubing. Materials with individual grain size of 0.025-0.25 mm will precipitate out of solution under low flow conditions resulting in a sedimentation layer to form in the tubing. Once initiated, this condition rapidly worsens unless large volumes of water are flushed

(continued page 28)



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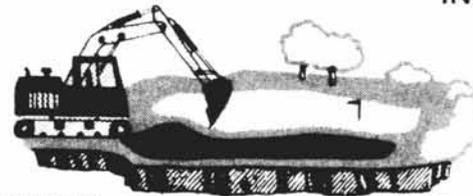
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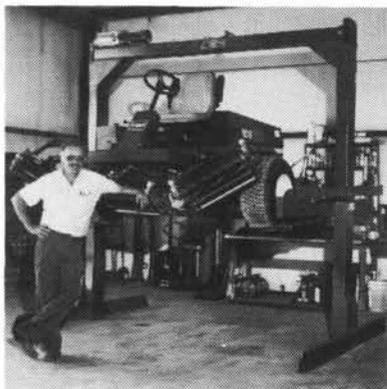
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"History of the White Water Rafting Trips"

by Fred Opperman

The rafting trips all started back in 1985 when I was invited along to fill a spot with a group of employees from Ford Motor Company. This group had been going for a number of years and like most large groups, someone always seems to cancel at the last minute, and I filled that spot.

I was hooked. The thrill and excitement was like nothing I had ever experienced before. The Gauley River is a dam released flow that is regulated to provide rafting opportunities for various rafting outfitters and kayakers. At the release, there are three tubes gushing 2,600 cubic feet a second for normal flow. It is at this point that all rafts are put in. The roar with it's tremendous noise and mists, along with churning water is something to see, let alone try to launch a raft into this inferno. The river falls 678 feet over a 26 mile run. The Upper Gauley is rated as the best whitewater river in the East. There are about 80 rapids of which 5 are class V+ rapids; 9, class V; 15, class IV; 29, class III; and the rest are class II rapids. This all makes for a very exciting and thrilling ride. The Gauley is rated as 7th best white water in the world!

In 1986, I asked if I could bring some friends with the group from Ford Motor Co. That year, my son, Todd played hooky from school and I had Joel Purpur and Dan Murray also along for their first trip down a wild scenic river.

In 1987, with now Joel and Dan hooked on this wild trip, we got a raft of our own, that is eight guys. That year we had myself, Joel, Dan, Steve Stewart, John Jackman, Al Fierst, Bruce Williams and Don Spiers. This was really the first trip where it was all golf related from the Chicago area. Our River Guide this year and the past two years was Robin Moore. When our group awoke at the Bankers Club in Thurmond, WV on Sunday morning to go rafting, there was a light skim of ice on the puddles. Everyone thought we were crazy with it being so cold, and then to go rafting for two days. It turned out fine.

In 1988, the drought year, the river was low and we could only float the Upper Gauley for one day and then we were bussed to the New River for the second day. This year we took two rafts or 16 guys. They were: F. Opperman, J. Purpur, Dan Murray, Steve Stewart, John Jackman, A. Fierst, B. Williams and D. Spiers. The rest are all first time rafters: Tom Nestor, Roger Stewart, John Lebedevs, Julius Albaugh, Dave Murray, Peter Leuzinger, and Dave Fisher. Again we stayed at the Bankers Club. That year they were filming the movie "Matewan" and Thurmond was the set.

1989 was again two rafts with 16 guys. The Banker Club had closed and most of the group camped at Class VI the night before. This year we had: F. Opperman, J. Purpur, D. Murray, S. Stewart, J. Jackman, A. Fierst, B. Williams, Dave Blomquist, P. Leuzinger, T. Nestor, Dave Fisher and J. Albaugh. The rookies were: John Gurke, Steve Tedhams, Mike Hessenius, and Len Berg.

1990 was again a group of 16. River Guides were Robin Moore and Marty Tribble. The rafters were: F. Opperman, J. Purpur, D. Blomquist, J. Albaugh, Don Spier, B. Williams, Len Berg, A. Fierst, P. Leuzinger and Dave Fisher. The rookies this year: Steve Crow, Don Cross, Tom Murphy, Tim Bets, Reny Jacobson and Ken Kinka.

1991 the group was expanded to 22 and three rafts. Our guides were Robin Moore, Marty and Al. The group included: F. Opperman, J. Purpur, S. Stewart, J. Albaugh, P. Leuzinger, Mike Hessenius, Len Berg, Ken Kinka, D. Spier, R. Jacobson, J. Lebedevs, Steve Crow, D. Cross, A. Fierst, B. Williams, John Gurke, D. Blomquist and Tom Murphy. The rookies: Rick Uthe, Brian Wilkens, Trent Bradford, Walter Fuchs and Dave Ward. Remember, Wally couldn't find his tent after he had set it up.

1992 the group grew by two to 24. Guides were Robin Moore, Marty and Pat. The group was: F. Opperman, J. Purpur, S. Stewart, D. Blomquist, Mike Hessenius, D. Cross, Tom Murphy, J. Lebedevs, Trent Bradford, Renny Jacobson, Ken Kinka, Rick Uthe, J. Gurke, D. Fisher, P. Leuzinger, Dave Ward, and Todd Opperman. The rookies: Dan Anderson, Tom Voight, John Minoque, Dan Albaugh, Ed Collins, Brian Melsha and John Conley. This year Tom Voight fell out before he ever really got into the raft, right at the put in.

1993 the group dropped back to 22. The guides were Robin Moore, Marty & Helen Tribble. This group with the years of experience in rafting after their names: F. Opperman 9, J. Purpur 8, S. Stewart 6, P. Leuzinger 6, D. Blomquist 6, J. Gurke 4, J. Albaugh 4, Dave Ward 3, Dave Fisher 5, T. Bradford 3, M. Hessenius 4, Tom Murphy 3, D. Albaugh 2, Tom Voight 2, R. Jacobson 4, Ken Kinka 3, and J. Lebedevs 4. The rookies were: Don Ferreri, Zach Thompson, Dan West, Greg Johnson and Tim Betz.

(continued page 26)

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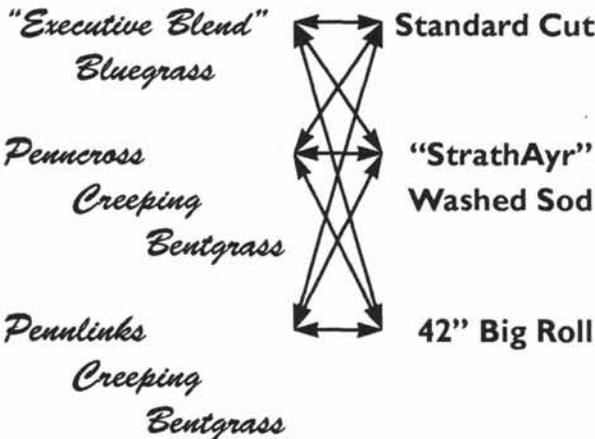


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(Rafting Trips continued)

1994 and what could be the final trip — the group was reduced to 16, with only 7 from the Chicago area. Our guides were once again Robin Moore, and Marty Tribble. A little info on the guides, Robin has been rafting for 20+ years. He was hand picked in 1991 to go on a National Geographic trip to Peru's Colca River and raft it. It is the earth's deepest canyon. See "National Geographic" Vol. 183, No. 1, January 1993. Unfortunately the only clear picture of Robin are his ugly and battered feet. Robin organized the river guides into an association and became their first President two years ago. Marty, has been rafting all over the world for the past 15 years. From England, Scotland, Australia and New Zealand. He follows the water so to speak. Both men are EMT's and very qualified, plus they tell tremendous stories and bad jokes.

This years group with the years they have been rafting behind their names: F. Opperman 10, Joel Purpur 9, Steve Stewart 7, Al Fierst 6, Don Cross 4, Dave Ward 4, Tom Voight 3, Mike Hessenius 5, Zach Thompson, Dan West, Brian Melsha, Brian Wilkens, Steve Tedhams, Fred Anderson, Harry Scheuman, and Kevin Henley. This year the weather was perfect with the temperature in the 70's and the water temperature was 68 degrees.



The 1994 Group picture: Front row, left to right - Don Cross, Brian Wilkins, River Guide Robin Moore, Dave Ward. 2nd row - Zach Thompson, Brian Melsha, Fred Opperman, River Guide Marty Tribble, Joel Purpur, Mike Hessenius, Harry Scheumann, and Steve Stewart. Back row - Tom Voight, Dan West, Fred Anderson, Steve Tedhams, Kevin Henley and Al Fierst.

Our group of 16 did pretty good by staying in the rafts. Robin did finally get Fred out at a rapid, the first time in 10 trips. Joel twice checked out the underside of the raft, once intentionally when we were instructed to run him over as he was swimming and the second time by Joel not being able to ride the bucking raft through a rapid. He was flipped off and was run over. He finally came up without his helmet and really gave Robin a scare for the length of time he was gone. Our trip was delayed three times by accidents and hauling people out who got injured. Leg splints were applied to two women. One of them had to be hoisted by ropes up a rock cliff to be carried out to a hospital. A black eye, scratches, and bloody noses were other accidents in the other boats in

our group. One raft flipped completely coming through the class V + Lost Paddle rapid. Everyone was out, including the guide. That is where the one woman was hurt.

Altogether over the past years, our group took 45 different people on this wild raft trip. Most of them kept coming back for more. Others drifted away, either by moving, job demands or white water rafting was not their idea of fun. For me it was the greatest, the thrill of the rapids and being able to share it with so many friends.



Summerville Dan with 3 tubes putting out 2,600 cubic feet a second of white water.



Our raft going through a Class II rapid.



Joel Purpur and the back of Fred Opperman in the front of the raft while "surfing a hydraulic".



Zach Thompson, Brian Wilkins, Fred Opperman, Joel Purpur and Mike Hessenius waiting for the water to rise to start the second day of rafting.



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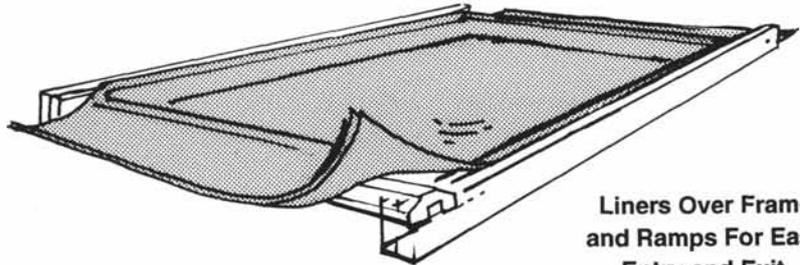
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(Drainage continued)

through the tubing on a regular basis. There are two types of a woven nylon polyester stocking and a non-woven geotextile fabric. The non-woven geotextile fabric is relatively recent in the drainage industry, and has proven to be less susceptible to clogging with fines. Ideally, the results of soil a test should be matched with the individual characteristics of the envelope.

Figure 3.
SAMPLE CALCULATION FOR TUBING CAPACITY:

In a 100 mm Tube:
area = $3.14 \times (0.05\text{m} \times 0.05\text{m})$
= 0.00785 sq.m.
volume = area x length
therefore : for a 1.0 m. length,
volume = 0.00785 cu.m.

Whereas In a 200 mm Tube
area = $3.14 \times (0.10\text{m} \times 0.10\text{m})$
= 0.0314 sq.m.
therefore : for a 1.0 m. length,
volume = 0.0314 cu. m.

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GCSAA Chapter Relations Meeting Update

by Bob Maibusch, CGCS, MGC

I recently (September 25, 26) attended the GCSAA Chapter Relations meeting as the representative of the MAGCS in Lawrence, Kansas. The purpose of the meeting was to discuss and reach some consensus of agreement among the chapter representatives, on some of the key issues that the Chapter Relations Planning Committee had identified in trying to strengthen ties between the affiliated chapters and GCSAA. Incidentally, MAGCS members Bruce Williams, and Roger Stewart were members of that resource committee, and Tommy Witt was also in attendance.

The two days of analysis covered many points, but kept one central theme, the GCSAA/Chapter Mission Statement which states that "GCSAA and its affiliated chapters shall work together to better serve their members and the golf course superintendents profession".

To that end, the GCSAA Board of Directors has established a Chapter Relations department at headquarters, and will be publishing a "Chapter Network News" newsletter. Additionally, a survey is being sent to chapter members (A, B, and C class) who are not currently members of the GCSAA to attempt to find out why they haven't elected to join the national.

Some other key points that the group had reached a consensus in supporting were that both the national and the chapters should work to demonstrate the benefits of membership in **both** groups to their members. That there be some consistency in the by-laws of affiliated chapters and GCSAA particularly in the areas of membership classes and voting privileges. That we should work toward achieving/maintaining a balanced process in GCSAA elections, and at some point in the future we would like to see every A, B, and C class member (superintendents and assistants) of an affiliated chapter also maintain membership in GCSAA.

It was agreed that this meeting should be an annual event. If there are any questions or concerns relating to the issues discussed or any other GCSAA/Chapter issues please feel free to contact myself, Roger Stewart, Bruce Williams, or Tommy Witt.



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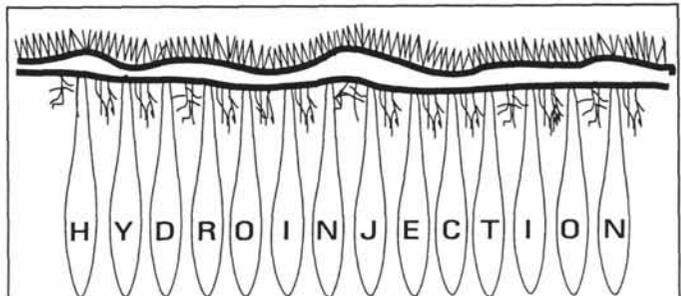
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